

Currículum vitæ

Número de hojas que contiene: 45+Portada

Nombre: Luis Alfonso Labarga Echeverría

Fecha: July 2020

El arriba firmante declara que son ciertos los datos que figuran en este currículum, asumiendo en caso contrario las responsabilidades que pudieran derivarse de las inexactitudes que consten en el mismo.

APELLIDOS: Labarga Echeverría

NOMBRE: Luis Alfonso

SEXO: V

D.N.I.: 16.527.494 FECHA DE NACIMIENTO: 26/05/1960 Nº FUNCIONARIO: 1652749446

DIRECCIÓN PARTICULAR: Pedro Laín Entralgo 6-11

CIUDAD: Boadilla del Monte (Madrid) DISTRITO POSTAL: 28660 TELEFONO: 91-6329146

ESPECIALIZACION(CODIGO UNESCO): 220807,220806,2290

FORMACION ACADEMICA

LICENCIATURA/INGENIERIA	CENTRO	FECHA
Ciencias Físicas	Universidad Autónoma de Madrid	Junio 1983

TÍTULO Tesina: Sobre Algunos Aspectos en la Desintegración del Protón

DIRECTOR: Jose Luis Sánchez Gómez

DOCTORADO

Ciencias Físicas	Universidad Autónoma de Madrid	Julio 1987
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TÍTULO TESIS: Estudios de QCD Perturbativa en Interacciones e^+e^- con el Detector TASSO

DIRECTOR: Fernando Barreiro Alonso

SITUACION PROFESIONAL ACTUAL

ORGANISMO: Universidad Autónoma de Madrid

FACULTAD, ESCUELA o INSTITUTO: Facultad de Ciencias

DEPT./SECC./UNIDAD ESTR.: Depto. de Física Teórica

CATEGORIA PROFESIONAL Y FECHA DE INICIO: Profesor Titular , 1991

DIRECCION POSTAL: Dpto. Física Teórica, C–XI, Universidad Autónoma de Madrid, 28049–Madrid

TELEFONO (indicar prefijo, número y extensión): 91-497 8589

PLANTILLA

CONTRATADO

BECARIO

INTERINO

DEDICACION: A TIEMPO COMPLETO

A TIEMPO PARCIAL

ACREDITADO Cuerpo de CATEDRATICOS de UNIVERSIDAD, ref. aneca-2013-002389

[Julio 2014 → junio 2019] Director del Departamento de Física Teórica de la U.A.M.

ACTIVIDADES ANTERIORES DE CARACTER CIENTÍFICO O PROFESIONAL

FECHAS	PUESTO	INSTITUCION
1983-1984		Servicio Militar
1984-1985	Becario	DESY (Hamburgo, Alemania)
1985-1987	Investigador Asociado	Universidad de Siegen (Alemania)
1987-1989	Becario Fulbright	SLAC/UCSC (California, USA)
1989-1989	Investigador Asociado	SLAC/UCSC (California, USA)
1989-1991	Profesor Titular Interino	Universidad Autónoma de Madrid
1991-	Profesor Titular	Universidad Autónoma de Madrid

IDIOMAS DE INTERES CIENTÍFICO (R=regular, B=bien, C=correctamente)

IDIOMA	HABLA	LEE	ESCRIBE
Inglés	C	C	C

LÍNEAS DE INVESTIGACIÓN (por orden cronológico)

Físico Experimental de Altas Energías. He trabajado siempre en laboratorios y experimentos líderes a nivel mundial.

- DESY [1985-1987], e^+e^- , $\sqrt{s}=14-45$ GeV
 - Fragmentación; g -jets, b -jets
 - Tests de QCD perturbativa y medidas de α_s en e^+e^-
- SLAC [1987-1989], e^+e^- , $\sqrt{s}=29,100$ GeV
 - Medida de $e^+e^- \rightarrow hadrons$ ($\sqrt{s}=29$ GeV) y extracción de α_s
 - Medida de la resonancia del boson Z en e^+e^-
 - Desarrollo del primer detector de vértices de silicio con lectura VLSI para un collider; el "Silicon Strip Vertex Detector" de MARKII en el SLC
- UAM-DESY [1990-2010], ep , $\sqrt{s}=300$ GeV
 - Optimización diseño del calorímetro de ZEUS y extensiones
 - Construcción y pruebas del "Forward Tracking Detector" de ZEUS
 - Seccion eficaz profundamente inelástica ep
 - Difracción y QCD-p
 - Tests de QCD-p via producción de "charm"
- UAM-CERN [1995-2007], pp , $\sqrt{s}=14000$ GeV
 - Diseño, constr. y pruebas del Calorímetro Electromagnético de ATLAS para el LHC
 - Cálculo distribuido GRID para ATLAS, nodo UAM
 - Preparación búsqueda Higgs ME masa intermedia
- UAM-FNAL (CIEMAT visitor) [2004 - 2011], $p\bar{p}$, $\sqrt{s}=2000$ GeV
 - Medida propiedades hadrones b
 - Violación CP en sector b
- UAM-KamiokaObservatory [2008 \rightarrow]; Experimento SuperKamiokande
 - I+D en métodos de identificación de neutrones en experimentos Agua-Cherenkov
 - Medida de precisión matriz mezcla leptónica
 - Desintegración del Protón
- UAM-Laboratorio Subterráneo de Canfranc [2008 \rightarrow]; Experimento SuperkGd
 - Medidas de radio-pureza con detectores de Germanio de muy bajo fondo
- UAM [2008 - 2013]; Búsqueda de Materia Oscura con el Telescopio Espacial Fermi-LAT
 - Centro Galáctico
 - Anisotropías
- UAM [2008 \rightarrow]; Fenomenología de ν_s , proyectos LAGUNA y LAGUNA-LBNO, proyecto Hyper-Kamiokande
 - Estrategía de la física de neutrinos en las próximas décadas
 - Tecnología óptima para un detector de neutrinos, del tipo Mega-Ton, de nueva generación

- Infraestructura subterránea, operación del detector
- Estudio de viabilidad del Laboratorio Subterráneo de Canfranc para alojar el experimento
- UAM-Laboratorio Subterráneo de Canfranc [2011 →]; Experimento NEXT
 - Desintegración Beta Doble Sin Neutrinos.
 - Medida de radio-pureza con detectores HPGe de todos sus materiales. Impacto.
- UAM-Kamioka Observatory [2012 →]; Proyecto / Experimento Hyper-Kamiokande
 - Desarrollo general del diseño y del Proyecto
 - Construcción de una participación española
 - Cubiertas de los PMTs para mitigar efectos de su posible implosión
- UAM - Kamioka Observatory [2016 →]: Experimento T2K
 - Violación de la simetría Carga-Paridad en el sector leptónico

PROYECTOS DE INVESTIGACIÓN FINANCIADOS: PARTICIPACION y DIRECCIÓN

TITULO: Estudio de las aniquilaciones e^+e^- con el detector TASSO en PETRA.

ENTIDAD FINANCIADORA: CAICyT (AE-88-05)

DURACION DESDE: 1985 HASTA: 1988

INVESTIGADOR PRINCIPAL: Fernando Barreiro Alonso

FINANCIACION: 146 Mptas

TITULO: Estudio de la dispersión profundamente inelástica con ZEUS en HERA.

ENTIDAD FINANCIADORA: CAICyT (AEN89-585 y AEN93-077)

DURACION DESDE: 1989 HASTA: 1996

INVESTIGADOR PRINCIPAL: Fernando Barreiro Alonso

FINANCIACION: 120 Mptas

TITULO: Estudio de la dispersión electrón protón con ZEUS en HERA

ENTIDAD FINANCIADORA: CICyT (AEN96-1665-C02-01)

DURACION DESDE: 1996 HASTA: 1999

INVESTIGADOR PRINCIPAL: Luis A. Labarga Echeverría

NO. DE INVESTIGADORES: 7

FINANCIACION: 48 Mptas

TITULO: Construcción del calorímetro electromagnético de argón líquido de ATLAS

ENTIDAD FINANCIADORA: MEC (AEN97-1677 y AEN99-0385)

DURACION DESDE: 1997 HASTA: 2001

INVESTIGADOR PRINCIPAL: Fernando Barreiro Alonso

FINANCIACION: 300 Mptas

TITULO: Estudio de la dispersión electrón protón con ZEUS en HERA

ENTIDAD FINANCIADORA: MEC (AEN99-0384)

DURACION DESDE: 1999 HASTA: 2002

INVESTIGADOR PRINCIPAL: Luis A. Labarga Echeverría

NO. DE INVESTIGADORES: 6

FINANCIACION: 45.4 Mptas

TITULO: An Experimental High Energy Data Physics Program: Silicon Development and Data Analysis with the Collider Detector at Fermilab

ENTIDAD FINANCIADORA: D.O.E. -EEUU- via Uni. Purdue

DURACION DESDE: 2000 HASTA: 2002

INVESTIGADOR PRINCIPAL: Luis A. Labarga Echeverría

NO. DE INVESTIGADORES: 3

FINANCIACION: 75810 \$

TITULO: Construcción del calorímetro de ATLAS

ENTIDAD FINANCIADORA: MEC (FPA2002-01008)

DURACION DESDE: 2002 HASTA: 2005

INVESTIGADOR PRINCIPAL: Fernando Barreiro Alonso

FINANCIACION: 863.376,00 Euros

TITULO: Desarrollo de Infraestructura DataGrid para análisis de datos del LHC

ENTIDAD FINANCIADORA: MEC (FPA2002-04208-C07-03)

DURACION DESDE: 2002 HASTA: 2005

INVESTIGADOR PRINCIPAL: Jose del Peso Malagón
NO. DE INVESTIGADORES: 5
FINANCIACION: 267.996,0 Euros

TITULO: Estudio de la dispersión electrón protón con ZEUS en HERA
ENTIDAD FINANCIADORA: MEC (FPA2002-00915)
DURACION DESDE: 2002 HASTA: 2005
INVESTIGADOR PRINCIPAL: Luis A. Labarga Echeverría
NO. DE INVESTIGADORES: 6
FINANCIACION: 255660,0 Euros

TITULO: Construcción del calorímetro de ATLAS
ENTIDAD FINANCIADORA: MEC (FPA2005-03010)
DURACION DESDE: 2006 HASTA: 2008
INVESTIGADOR PRINCIPAL: Fernando Barreiro Alonso
FINANCIACION: 590000,0 Euros

TITULO: Estudio de la dispersión electrón protón con ZEUS en HERA
ENTIDAD FINANCIADORA: MEC (FPA2005-02272)
DURACION DESDE: 2006 HASTA: 2008
INVESTIGADOR PRINCIPAL: Juan Terrón Cuadrado
NO. DE INVESTIGADORES: 6
FINANCIACION: 289000,00 Euros

TITULO: Design of a pan-European Infrastructure for Large Apparatus Studying Grand Unification and Neutrino Astrophysics
ENTIDAD FINANCIADORA: E.U. (FP7-212343-LAGUNA)
DURACION DESDE: 07/2008 HASTA: 07/2011
INVESTIGADOR PRINCIPAL UAM: Luis A. Labarga Echeverría
FINANCIACION: 35000,0 Euros + 145000,0 euros (LSC)

TITULO: Preparación de la Participación en el Experimento SuperKamiokande y Estudio de la Potencialidad del uso del Laboratorio Subterráneo de Canfranc en Dicha Participación
ENTIDAD FINANCIADORA: MICINN (FPA2008-03004-E/FPA)
DURACION DESDE: 11/2008 HASTA: 11/2009
INVESTIGADOR PRINCIPAL: Luis A. Labarga Echeverría
FINANCIACION: 10000,00 Euros

TITULO: Caracterización del Laboratorio Subterráneo de Canfranc en el Contexto del Proyecto LAGUNA
ENTIDAD FINANCIADORA: MICINN (FPA2008-03002-E/FPA)
DURACION DESDE: 07/2008 HASTA: 07/2009
INVESTIGADOR PRINCIPAL: Luis A. Labarga Echeverría
FINANCIACION: 7000,0 Euros

TITULO: Física Experimental de Neutrinos en la U.A.M.
ENTIDAD FINANCIADORA: MICINN (FPA2009-13697-C04-02)
DURACION DESDE: 01/01/2010 HASTA: 31/12/2011
INVESTIGADOR PRINCIPAL: Luis A. Labarga Echeverría
FINANCIACION: 126566,0 Euros

TITULO: Sistema de Video Conferencia para comunicaciones entre la UAM y la caverna expe-

rimental de EGADS en el Observatorio de Kamioka

ENTIDAD FINANCIADORA: Proyectos Cooperación Interuniversitaria UAM - Banco Santander con Asia

DURACION DESDE: 01/06/2011 HASTA: 31/05/2012

INVESTIGADOR PRINCIPAL: Luis A. Labarga Echeverría

FINANCIACION: 12000,0 Euros

TITULO: Design of a pan-European Infrastructure for Large Apparatus studying Grand Unification, Neutrino Astrophysics and Long Baseline Neutrino Oscillations

ENTIDAD FINANCIADORA: E.U. FP7-284518-LAGUNA-LBNO

DURACION DESDE: 09/2011 HASTA: 09/2014

INVESTIGADOR PRINCIPAL UAM: Luis A. Labarga Echeverría

FINANCIACION: 19640,0 Euros (Total 5 Meuros)

TITULO: Build On Euro-Asian Mobility

ENTIDAD FINANCIADORA: EU ERASMUS MUNDUS 2010-2014, Lot 3 - Japan, Korea

DURACION DESDE: 06/2011 HASTA: 06/2014

Tipo: Luis A. Labarga Echeverría, Staff Scholarship. Host: Uni. Okayama

FINANCIACION: 10000,0 Euros

TITULO: Agreement on Academic Cooperation Between the Faculty of Sciences, Autonomous University of Madrid and the Institute for Cosmic Ray Research, the University of Tokyo

ENTIDAD FINANCIADORA: UAM

DURACION DESDE: 01/12/2012 HASTA: 30/11/2017

INVESTIGADOR PRINCIPAL: Luis A. Labarga Echeverría

FINANCIACION: approx. 3.000 Euros /año

TITULO: Super-Kamiokande Plus

ENTIDAD FINANCIADORA: E.U. H2020 MSCA-RISE-2014 641540-SKPLUS

DURACION DESDE: 12/2014 HASTA: 11/2018

COORDINADOR PROYECTO EU: Luis A. Labarga Echeverría, UAM

COORDINADOR "3rd country partner": T. Kajita, ICRR, U. Tokyo

INVESTIGADOR PRINCIPAL UAM: Luis A. Labarga Echeverría

FINANCIACION: 193.500,0 Euros (Total 310.500,0 euros)

TITULO: Física de Oscilaciones de Neutrinos UAM

ENTIDAD FINANCIADORA: MINECO FPA2016-78417-C2-2-P

DURACION DESDE: 01/01/2017 HASTA: 31/12/2018

INVESTIGADOR PRINCIPAL: Luis A. Labarga Echeverría

FINANCIACION: 25000,0 Euros

TITULO: El Programa de Física Experimental de Neutrinos y Gran Unificación en la U.A.M.

ENTIDAD FINANCIADORA: MCIN PGC2018-099388-B-I00

DURACION DESDE: 01/01/2019 HASTA: 31/12/2021

INVESTIGADOR PRINCIPAL: Luis A. Labarga Echeverría

FINANCIACION: 36300,0 Euros

TITULO: Data Taking, Calibrations, Measurements and Analysis with Super-Kamiokande and SupreKGd

ENTIDAD FINANCIADORA: ICRR-IURP

DURACION DESDE: 01/04/2019 HASTA: 31/03/2020

INVESTIGADOR PRINCIPAL: Luis A. Labarga Echeverría

FINANCIACION: 200.000, yenes japoneses

TITULO: Development and testing of cost- effective, high-performance PhotoDetector anti-implosion covers for Hyper-Kamiokande

ENTIDAD FINANCIADORA: ICRR-IURP

DURACION DESDE: 01/04/2019 HASTA: 31/03/2020

INVESTIGADOR PRINCIPAL: David Bravo Berguño

FINANCIACION: 500.000, yenes japoneses

TITULO: From Super-Kamiokande to Hyper-Kamiokande

ENTIDAD FINANCIADORA: E.U. H2020 MSCA-RISE-2019 872546-SK2HK

DURACION DESDE: 11/2019 HASTA: 10/2023

COORDINADOR PROYECTO EU: Luis A. Labarga Echeverría, UAM

COORDINADOR "3rd country partner": T. Kajita, ICRR, U. Tokyo

INVESTIGADOR PRINCIPAL UAM: Luis A. Labarga Echeverría

FINANCIACION: 133.400,0 Euros (Total 570.400,0 euros)

TITULO: Data Taking, Calibrations, Measurements and Analysis with Super-Kamiokande and SupreKGd

ENTIDAD FINANCIADORA: ICRR-IURP

DURACION DESDE: 01/04/2020 HASTA: 31/03/2021

INVESTIGADOR PRINCIPAL: Luis A. Labarga Echeverría

FINANCIACION: 200.000, yenes japoneses

TITULO: Development and testing of cost- effective, high-performance PhotoDetector anti-implosion covers for Hyper-Kamiokande

ENTIDAD FINANCIADORA: ICRR-IURP

DURACION DESDE: 01/04/2020 HASTA: 31/03/2021

INVESTIGADOR PRINCIPAL: Luis A. Labarga Echeverría

FINANCIACION: 500.000, yenes japoneses

PUBLICACIONES

Indicar volumen, páginas inicial y final (año) y clave.

CLAVE: L=libro completo, CL=capítulo de libro, A=artículo, R=review, E=editor.

Aclaración: Las publicaciones han sido clasificadas según reacción, experimento y tipo de trabajo: análisis, instrumentación, fenomenología, etc.

e^+e^- physics; $\sqrt{s} \sim 30$ GeV

Fenomenología

1. JET MASSES IN e^+e^- ANNIHILATION
J. del Peso, L. Labarga, F. Barreiro; Z. Phys. C43 (1989) 287.

Experimento TASSO; análisis

1. A STUDY OF THREE JET EVENTS IN e^+e^- ANNIHILATION AT $W=34.5$ GEV
TASSO Coll., M. Althoff et al., Z. Phys. C29 (1985)29.
2. SEARCH FOR TWO PHOTON PRODUCTION OF RESONANCES DECAYING INTO $K\bar{K}$ and $K\bar{K}\pi$
TASSO Coll., M. Althoff et al., Z. Phys. C29(1985)189.
3. PARTICLE CORRELATIONS OBSERVED IN e^+e^- ANNIHILATIONS INTO HADRONS AT C.M. ENERGIES BETWEEN 29 AND 37 GEV
TASSO Coll., M. Althoff et al., Z.Phys. C29(1985)347.
4. STUDY OF BOSE-EINSTEIN CORRELATIONS IN e^+e^- ANNIHILATIONS
TASSO Coll., M. Althoff et al., Z. Phys. C30(1986)355.
5. MEASUREMENT OF THE PHOTON STRUCTURE FUNCTION F_2 AT Q^2 FROM 7 TO 70 $(\text{GeV}/c)^2$
TASSO Coll., M. Althoff et al., Z. Phys. C31(1986)527.
6. A MEASUREMENT OF THE RADIATIVE WIDTH OF THE $A_2(1230)$ IN TWO PHOTON INTERACTIONS
TASSO Coll., M. Althoff et al., Z. Phys. C31(1986) 537.
7. VECTOR MESON PRODUCTION IN THE FINAL STATE $KK\pi\pi$ IN PHOTON- PHOTON COLLISIONS
TASSO Coll., M. Althoff et al., Z.Phys. C32(1986)11.
8. A MEASUREMENT OF THE D_0 LIFETIME
TASSO Coll., M. Althoff et al., Z. Phys. C32(1986)343.
9. INCLUSIVE π_0 PRODUCTION BY e^+e^- ANNIHILATION AT 34.6 GeV CENTER-OF-MASS ENERGY
TASSO Coll., M. Althoff et al., Z. Phys. C33 (1986) 13.
10. A MEASUREMENT OF THE D_s LIFETIME
TASSO Coll., W. Braunschwig et al.; Z. Phys. C35 (1987) 317
11. A STUDY OF ENERGY-ENERGY CORRELATIONS BETWEEN 12 AND 46.8 GEV C.M. ENERGIES
TASSO Coll., W. Braunschweig et al.; Z. Phys. C36 (1987) 349.
12. STUDY OF BHABHA SCATTERING BETWEEN 12 AND 46.8 GEV C.M. ENERGIES
TASSO Coll., W. Braunschweig et al.; Z. Phys. C37 (1988) 171.
13. A SEARCH FOR PARTICLES WITH MAGNETIC CHARGE PRODUCED IN e^+e^- ANNIHILATIONS AT $\sqrt{s} = 35$ GeV
TASSO Coll., W. Braunschweig et al.; Z. Phys. C38 (1988) 543.
14. A MEASUREMENT OF THE TAU LIFETIME
TASSO Coll., W. Braunschweig et al.; Z. Phys. C39 (1988) 331.

15. ANALYSIS OF MULTI-JET FINAL STATES IN e^+e^- ANNIHILATION
TASSO Coll., W. Braunschweig et al.; Phys.Lett.B214 (1988) 286.
16. A MEASUREMENT OF MUON PAIR PRODUCTION IN e^+e^- ANNIHILATION AT CENTER-OF-MASS ENERGIES $35 \text{ GeV} < \sqrt{s} < 46.8 \text{ GeV}$
TASSO Coll., W. Braunschweig et al.; Z. Phys. C40 (1988) 163; ERRATUM-ibid. C42 (1989) 348.
17. STUDY OF η_c PRODUCTION IN TWO PHOTON COLLISIONS
TASSO Coll., W. Braunschweig et al.; Z. Phys. C41 (1989) 533.
18. MEASUREMENT OF THE TWO PHOTON REACTION $\gamma\gamma \rightarrow \pi^+\pi^-\pi^+\pi^-$ AT LARGE VALUES OF Q^2
TASSO Coll., W. Braunschweig et al.; Z. Phys. C41 (1989) 353.
19. EVIDENCE FOR DIRECT PHOTONS FROM QUARKS IN ELECTRON-POSITRON ANNIHILATION
TASSO Coll., W. Braunschweig et al.; Z. Phys. C41 (1988) 385.
20. JET FRAGMENTATION AND QCD MODELS IN e^+e^- ANNIHILATION AT c.m. ENERGIES BETWEEN 12-GeV and 41.5 GeV
TASSO Coll., W. Braunschweig et al.; Z. Phys. C41 (1988) 359.
21. A STUDY OF JETS FROM b QUARKS PRODUCED IN e^+e^- ANNIHILATIONS AT $\sqrt{s} = 35 - 46 \text{ GeV}$
TASSO Coll., W. Braunschweig et al.; Z. Phys. C42 (1989) 17.
22. MEASUREMENT OF THE AVERAGE LIFETIME OF B HADRONS
TASSO Coll., W. Braunschweig et al.; Z. Phys. C44 (1989) 1.
23. PION, KAON AND PROTON CROSS-SECTIONS IN e^+e^- ANNIHILATION AT 34 AND 44 GeV CM ENERGIES
TASSO Coll., W. Braunschweig et al.; Z. Phys. C42 (1989) 189.
24. STRANGE BARYON PRODUCTION IN e^+e^- ANNIHILATION
TASSO Coll., W. Braunschweig et al.; Z. Phys. C45 (1989) 209.
25. CHARGED MULTIPLICITY DISTRIBUTIONS AND CORRELATIONS IN e^+e^- ANNIHILATION AT PETRA ENERGIES
TASSO Coll., W. Braunschweig et al.; Z. Phys. C45 (1989) 193.
26. EXPERIMENTAL STUDY OF JET MASSES IN e^+e^- ANNIHILATION AT c.m. ENERGIES BETWEEN 12 - GeV AND 43.5 GeV
TASSO Coll., W. Braunschweig et al.; Z. Phys. C45 (1989) 23.
27. EXPERIMENTAL STUDY OF THE ORIENTATION OF THREE JET EVENTS IN e^+e^- ANNIHILATION AT PETRA
TASSO Coll., W. Braunschweig et al.; Z. Phys. C47 (1990) 181.
28. STRANGE MESON PRODUCTION IN e^+e^- ANNIHILATION
TASSO Coll., W. Braunschweig et al.; Z. Phys. C47 (1990) 167.

e^+e^- physics; $\sqrt{s} \sim 100 \text{ GeV}$

Experimento MARKII; instrumentación

1. THE MARK II DETECTOR FOR THE SLC
MARK II Coll., G. Abrams et al.; Nucl. Inst. and Meth. A281 (1989) 55.
2. AN ALIGNMENT METHOD FOR THE MARK II SILICON STRIP VERTEX DETECTOR USING AN X-RAY BEAM
C. Adolphsen et al.; Nucl. Inst. and Meth. A288 (1990) 257.
3. THE MARK-II SILICON STRIP VERTEX DETECTOR AND PERFORMANCE OF A SILICON DETECTOR TELESCOPE IN THE MARK II DETECTOR AT THE SLC
L.Labarga et al.; IEEE Trans. Nucl. Sci. 38 (1991) 25-29.
4. THE MARK-II SILICON STRIP VERTEX DETECTOR
Chris Adolphsen et al.; Nucl. Inst. and Methods A313 (1992) 63.

Experimento MARKII; análisis

1. INITIAL MEASUREMENTS OF Z-BOSON RESONANCE PARAMETERS IN e^+e^- ANNIHILATION
MARK II Coll., G.S.Abrams et al.; Phys. Rev. Lett. 63(1989) 724.
2. FIRST MEASUREMENTS OF HADRONIC DECAYS OF THE Z BOSON
MARK II Coll., G.S.Abrams et al.; Phys. Rev. Lett. 63(1989) 1558.
3. MEASUREMENTS OF Z BOSON RESONANCE PARAMETERS IN E^+E^- ANNIHILATION
MARK II Coll., G.S.Abrams et al.; Phys. Rev. Lett. 63(1989) 2173.
4. SEARCH FOR NEW QUARKS AND LEPTONS PRODUCED IN Z BOSON DECAY
MARK II Coll., G.S.Abrams et al.; Phys. Rev. Lett. 63(1989) 2447.
5. MEASUREMENT OF Z DECAYS INTO LEPTON PAIRS
MARK II Coll., G.S.Abrams et al.; Phys. Rev. Lett. 63(1989) 2780.
6. SEARCH FOR LONG-LIVED MASSIVE NEUTRINOS IN Z DECAYS
MARK II Coll., C. K. Jung et al.; Phys. Rev. Lett. 64(1990) 1091.
7. DETERMINATION OF α_s FROM A DIFFERENTIAL JET MULTIPLICITY DISTRIBUTION AT SLC
AND PEP
MARK II Coll., S. Komamiya et al.; Phys. Rev. Lett. 64(1990) 987.
8. MEASUREMENTS OF CHARGED PARTICLE INCLUSIVE DISTRIBUTIONS IN HADRONIC DE-
CAYS OF THE Z BOSON
MARK II Coll., G. S. Abrams et al.; Phys. Rev. Lett. 64(1990) 1334.
9. MEASUREMENT OF THE $b\bar{b}$ FRACTION IN HADRONIC Z DECAYS
MARK II Coll., J. F. Kral et al.; Phys. Rev. Lett. 64(1990) 1211.
10. A SEARCH FOR DOUBLY CHARGED HIGGS SCALARS IN Z DECAYS
MARK II Coll., M. Swartz et al.; Phys. Rev. Lett. 64(1990) 2877.
11. A SEARCH FOR DECAYS OF THE Z TO UNSTABLE NEUTRAL LEPTONS WITH MASS BETWEEN
2.5 AND 22 GeV/c^2
MARK II Coll., P. R. Burchat et al.; Physical Review D 41(1990) 3542.
12. SEARCH FOR NON-MINIMAL NEUTRAL HIGGS BOSONS FROM Z BOSON DECAYS
MARK II Coll., S. Komamiya et al.; Phys. Rev. Lett. 64(1990) 2881.
13. A SEARCH FOR PAIR PRODUCTION OF HEAVY STABLE CHARGED PARTICLES IN Z DECAYS
MARK II Coll., T. Barklow et al.; Phys. Rev. Lett. 64(1990) 2980.
14. SEARCHES FOR SUPERSYMMETRIC PARTICLES PRODUCED IN Z BOSON DECAY
MARK II Coll., T. Barklow et al.; Phys. Rev. Lett. 64(1990) 2984.
15. MEASUREMENT OF THE TOTAL HADRONIC CROSS-SECTION IN e^+e^- ANNIHILATION AT $\sqrt{s} =$
29 GeV
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pp physics; $\sqrt{s} \sim 14000$ GeV

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3. Physics potential of a long-baseline neutrino oscillation experiment using a J-PARC neutrino beam and Hyper-Kamiokande
K. Abe *et al.* [Hyper-Kamiokande Proto-Collaboration], PTEP **2015** (2015), 053C02
4. Physics potentials with the second Hyper-Kamiokande detector in Korea,
K. Abe *et al.* [Hyper-Kamiokande], PTEP **2018** (2018) no.6, 063C01
5. Hyper-Kamiokande Design Report
K. Abe *et al.* [Hyper-Kamiokande], [arXiv:1805.04163 [physics.ins-det]].

NOTAS y COMUNICACIONES INTERNAS en COLABORACIONES

Aclaración: Las notas y/o comunicaciones internas son, por lo general, documentos que se dirigen a la Colaboración cuando es pertinente presentar detalles de un análisis en estado avanzado -próximo a la publicación- para el estudio y eventual reacción por parte de Ella. En otros casos son documentos con información relevante para el funcionamiento del experimento. Con el avance de la informática, las notas han ido dando paso a los ficheros informáticos con las presentaciones en los grupos de trabajo o similar, dada su enorme flexibilidad para modificaciones, puestas al día etc. En este CV no se hace una recopilación de éstos debido a la imposibilidad práctica de agruparlos en un número manejable de conjuntos de documentos.

Colaboración TASSO

TASSO-320 *Study of inclusive K_s^0 production in e^+e^- annihilations at $W=44$ GeV with the TASSO detector*
L. Labarga (marzo 1985)

TASSO-340 *K_s^0 analysis at $W=34$ and 44 GeV*
L. Labarga (noviembre 1985)

TASSO-369 *Tuning of the Lund MC (V 6.2) with SIMPLE detector simulation for the high energy data*
L. Labarga, (diciembre 1986)

TASSO-371 *Energy Energy Correlations in the Back to Back region*
F. Barreiro, L. Labarga (febrero 1987)

TASSO-389 *K^0 and Λ production for the 86 data*
L. Labarga (septiembre 1987)

Colaboración MARK II

NOTA: En la Colaboración MARK II la comunicación era mediante memorandums más informales los cuales no son listados en este CV.

Colaboración ZEUS

ZEUS-85-09 *Monte Carlo calculation of the light yield in a sandwich calorimeter with fiber read-out*
L. Labarga (01/08/85)

ZEUS-86-002 *Monte Carlo study of the light yield in an electro-magnetic calorimeter with fiber read-out and comparison with data*
L. Labarga, E. Ros, S. Weissenrieder (15/01/86)

ZEUS-86-053 *Performance of an Electromagnetic Calorimeter with Scintillator Strips and Wavelength shifter readout*
F. Barreiro, L. Labarga, B. Loehr, J. Mata, J. del Peso, E. Ros (01/12/86)

ZEUS-92-083 *Study of Global Hadronic Shapes in $e-p$ Deep Inelastic Neutral Current Low x Events at ZEUS*
G. Cases, L. Labarga, J. Terron (01/09/92)

ZEUS-93-035 *Study of the dE/dx capabilities of the ZEUS Forward Tracking Detector*
S. Gallego, E. Diez, F. Enriquez, L. Labarga (02/04/93)

ZEUS-93-078 *A Determination of F_2 with the Fall 92 Data*
Structure Function Group, L. Labarga et al. (01/07/93)

ZEUS-93-110 *Design, Construction and Test Results of the ZEUS Forward Tracking Detector*
B. Bock, H. Dabbous, H. Hartmann, M. Herzog, S. Kramarczyk, B. Schneider, R. Wedemeyer, M. Zachara, B. Gutjahr, U. Schneekloth, J. Schroeder, F. Barreiro, E. Diez, F. Enriquez, S. Gallego, L. Labarga (20/10/93)

ZEUS-94-005 *Run Coordinators report*
U. Dosselli, D. Hanna, G. Iacobucci, L. Labarga (26/01/94)

ZEUS-94-155 *Study of Neutral Strange Particle Production in Deep Inelastic Scattering*
S. George, J.P. Fernandez, L. Labarga, J. Hartmann, C.G. Matthews, R. Ullmann (01/12/94)

ZEUS-95-087 *A Study of FIR Digital Filtering in Drift Chamber Signal Processing with the ZEUS FTD test beam data*
E. Diez, F. Enriquez, S. Gallego, L. Labarga (06/07/95)

ZEUS-97-031 $D^{*\pm}$ Production in Deep Inelastic Scattering at HERA

J. P. Fernandez, L. Labarga, J. Roldán (06/05/97)

ZEUS-97-080 Event shape analysis of deep inelastic scattering events with a large rapidity gap at HERA

J.M. Hernandez, F. Barreiro, L. Labarga (08/10/97)

ZEUS-99-065 Measurement of $D^{*\pm}$ Cross Sections and the Charm Structure Function of the Proton in Deep Inelastic Scattering at HERA

R. Hall-Wilton, L. Labarga, A. Prinias, I. Redondo, W. Zeuner (01/10/99)

OTROS: En los últimos años se ha establecido como práctica en ZEUS el uso de páginas web, en vez de notas internas, para la publicación interna de resultados. De especial interés es

<http://www-zeus.desy.de/labarga/d-hadrons-98-00/>

Colaboración ATLAS

ATL-LARG-96-038 Lead machining measurements for the ATLAS Electromagnetic End-Cap Liquid Argon calorimeter

L. Hervás, L. Labarga (15/03/96)

ATL-LARG-99-004 Analysis of the Quality Control Measurements performed on the Absorbers produced for the Module 0 of the ATLAS Electromagnetic EndCap Calorimeter

L. Labarga, P.Romero (05/02/99)

ATL-LARG-2004-006 Muon Results from the EMEC/HEC Combined Run corresponding to the ATLAS Pseudorapidity region $1,6 < \eta < 1,8$

C. Cojocarú et al. (29 Apr 2004)

Colaboración CDF

CDF-7796 Systematic Studies on lifetimes of B mesons using the exclusive decay modes $B^+ \rightarrow J/\Psi K^+$, $B^+ \rightarrow J/\Psi K^{*+}$, $B^0 \rightarrow J/\Psi K^{*0}$ and $B^0 \rightarrow J/\Psi K_s^0$

J. Boudreau, J.P. Fernández, L.Flores, L. Labarga, M.Spezziga (26/08/2005)

CDF-7867 Combined Measurement of the Λ_b^0 Lifetime in $\Lambda_b^0 \rightarrow J/\Psi \Lambda^0$

K. Anikeev et al. (21/11/2005)

CDF-8084 Updated Measurement of the Λ_b^0 Lifetime in $\Lambda_b^0 \rightarrow J/\Psi \Lambda^0$ using 0.8 fb^{-1}

K. Anikeev et al. (2/06/2006)

CDF-8215 Studies of the proper time resolution using the J/Ψ vertex

K. Anikeev, J.Boudreau, J. P. Fernandez, L.R. Flores-Castillo, L. Labarga, E. Lipeles, M. Neubauer, R. Madrak C. Liu (13/04/2006)

CDF-8248 Measurement of the Λ_b^0 Lifetime in the Decay Channel $\Lambda_b^0 \rightarrow J/\Psi \Lambda^0$

K. Anikeev et al. (17/05/2006)

CDF-8268 Meas. of the Λ_b^0 Lifetime in the Decay Channel $\Lambda_b^0 \rightarrow J/\Psi \Lambda^0$: Text for the Public Web Page

K. Anikeev et al. (06/06/2006)

CDF-8524 Measurement of Exclusive B Lifetimes in the modes $B^+ \rightarrow J/\Psi K^+ \dots$

J. Boudreau, J.P. Fernandez, L. Labarga, E. Lipeles, M. Neubauer, R. Madrak, C. Liu (02/10/2006)

CDF-8960 Measurement of the CP Violation Parameter β' in B_s to $J/\Psi \Phi$ Decays

Author(s): J.Boudreau, J.P.Fernandez, K.Gibson, G.Giurgiu, G.Gomez-Ceballos, L.Labarga, C.Liu, P.Maksimovic, M.Paulini

CDF-9090 Study of the time evolution of flavor-tagged B_s mesons

Author(s): J. Boudreau, J.P Fernandez, I. Furic, K. Gibson, G.P. di Giovanni, G. Giurgiu, G. Gomez-Ceballos, L. Labarga, Ch. Liu, Kh. Makhoul, P. Maksimovic, M. Paulini, Ch. Paus, A. Savoy-Navarro

CDF-9395 An Updated Measurement the CP Violating Phase β_s using B_s to $J/\Psi \Phi$ Decays

Author(s): F. Azfar, J. Boudreau, M. Feindt, J. P. Fernandez, K. Gibson, G. Giurgiu, G. Gomez-Ceballos, T. Kuhr, M. Kreps, L. Labarga, C. Liu, L. Oakes, P. Maksimovic, J. Morlock, M. Paulini, E. Pueschel, A. Schmidt

CDF-9458 An Updated Measurement of the CP-Violating Phase β_s

Author(s): F. Azfar, J. Boudreau, M. Feindt, J. P. Fernandez, K. Gibson, G. Giurgiu, G. Gomez-Ceballos, T. Kuhr, M. Kreps, L. Labarga, C. Liu, L. Oakes, P. Maksimovic, J. Morlock, M. Paulini, E. Pueschel, A. Schmidt

CDF-9704 Title: Update on the measurement of exclusive B lifetimes and measurement of B lifetime ratios.
Author(s): F. Azfar, J. Boudreau, J.P. Fernandez, L. Labarga, C. Liu, and S. Malde (16/12/2009)

CDF-9744 Title: Observation of the heavy $\Sigma_b^{(*)\pm}$ baryons in the decay $\Sigma_b^{(*)\pm} \rightarrow \Lambda_b \pi$ with $\Lambda_b \rightarrow J/\psi \Lambda$
Author(s): C.Calanca J.P.Fernandez, L.Labarga I.Redondo (04/08/2009)

CDF-10032 Title: Formulae for the Analysis of the Flavor-Tagged Decay $B_s^0 \rightarrow J/\psi \phi$ Author(s): J. Boudreau, J.P. Fernandez, K. Gibson, G. Giurgiu, G. Gomez-Ceballos, L. Labarga, C. Liu, P. Maksimovic, M. Kreps, T. Kuhr, E. Pueschel, L. Oakes, F. Azfar (24/12/2009)

Proyecto Hyper-Kamiokande

HK-TN-01 Title: Progress report on the Spanish cover design and testing; Authors: David bravo-berguño, luis labarga; Version 1 - May 16, 2018

ESTANCIAS EN CENTROS EXTRANJEROS
(estancias continuadas superiores a cuatro semanas)

CLAVE: D=doctorando, P=postdoctoral, I=invitado, C=contratado, O=otras(especificar)

CENTRO: DESY

LOCALIDAD: Hamburgo PAIS: Alemania AÑO: 1984-87 DURACION: 3 años y medio

TEMA: Estudio aniquilaciones e^+e^- con TASSO

CLAVE: D Becario e Investigador Asociado Uni. Siegen

CENTRO: SLAC

LOCALIDAD: San Francisco PAIS: EEUU AÑO: 1987-89 DURACION: 2 años y medio

TEMA: Construcción del MVXD para MARKII en el SLC

CLAVE: P Becario Fullbright e Investigador Asociado UCSC

CENTRO: DESY

LOCALIDAD: Hamburgo PAIS: Alemania AÑO: 1991 DURACION: 6 meses

TEMA: Estudio dispersión $e-p$ con ZEUS

CLAVE: O (parcialmente financiada por C.A.M.)

CENTRO: DESY

LOCALIDAD: Hamburgo PAIS: Alemania AÑO: 1992 DURACION: 6 meses

TEMA: Estudio dispersión $e-p$ con ZEUS

CLAVE: O (parcialmente financiada por C.A.M.)

CENTRO: DESY

LOCALIDAD: Hamburgo PAIS: Alemania AÑO: 1993 DURACION: 6 estancias de tres semanas

TEMA: Estudio dispersión $e-p$ con ZEUS

CLAVE: O (parcialmente financiada por C.A.M.)

ESTANCIAS EN EL EXTRANJERO
(inferiores a cuatro semanas)

CENTRO: CERN
LOCALIDAD: Ginebra PAIS: Suiza AÑO: 1999 DURACION: 1 mes
TEMA: Pruebas con haces de calorímetro ATLAS
CLAVE: O (propia del Proyecto de Investigación)

CENTRO: CERN
LOCALIDAD: Ginebra PAIS: Suiza AÑO: 2001 DURACION: 1 mes
TEMA: Pruebas con haces de calorímetro ATLAS
CLAVE: O (propia del Proyecto de Investigación)

CENTRO: CERN
LOCALIDAD: Ginebra PAIS: Suiza AÑO: 2002 DURACION: 1 mes
TEMA: Pruebas con haces de calorímetro ATLAS
CLAVE: O (propia del Proyecto de Investigación)

CENTRO: CERN
LOCALIDAD: Ginebra PAIS: Suiza
TEMA: Construcción del experimento ATLAS
CLAVE: O (propia del Proyecto de Investigación)
MULTIPLES ESTANCIAS DE APROXIMADAMENTE UNA SEMANA DE DURACION

CENTRO: CPPM
LOCALIDAD: Marsella PAIS: Francia
TEMA: Construcción del experimento ATLAS
CLAVE: O (propia del Proyecto de Investigación)
MULTIPLES ESTANCIAS DE APROXIMADAMENTE UNA SEMANA DE DURACION

CENTRO: DESY
LOCALIDAD: Hamburgo PAIS: Alemania
TEMA: Estudio de la dispersión ep con ZEUS en HERA
CLAVE: O (propia del Proyecto de Investigación)
MULTIPLES ESTANCIAS DE APROXIMADAMENTE UNA SEMANA DE DURACION

CENTRO: KAMIOKA OBSERVATORY
LOCALIDAD: Kamioka (P. Gifu) PAIS: Japón
AÑO: 2011 DURACION: 15 días
TEMA: Física Experimental de Neutrinos con SuperKamiokande
CLAVE: O (E.U. Erasmus-Mundus, BEAM)

CENTRO: KAMIOKA OBSERVATORY
LOCALIDAD: Kamioka (P. Gifu) PAIS: Japón
TEMA: Física Experimental de Neutrinos con SuperKamiokande

CLAVE: O (propia del Proyecto de Investigación)
MULTIPLES ESTANCIAS DE APROXIMADAMENTE DOS SEMANAS DE DURACION

COMUNICACIONES Y PONENCIAS PRESENTADAS A CONGRESOS

CLAVE: P=Poster, I=Conferencia invitada.

- 1- I *Study of Inclusive K_s^0 Production in e^+e^- annihilation at $W=44$ GEV with the TASSO Detector.*, Talk given at the “XVI International Winter Meeting on Fundamental Physics”. Cuenca, España, 1985. Proceedings in World Scientific, 76-188 (1985).
- 2- I *Study of energy-energy correlations with TASSO.*, Talk given at the “Gemeinsame Frühjahrstagung 1987 (Joint Conference of the Austrian, German and Swiss Physical Societies)”. Zurich (Switzerland), 18-20 March 1987.
- 3- I *A Silicon Strip Detector Telescope in the MARK II Detector at the SLC.*, Talk given at the “Conference of the European Physical Society on High Energy Physics”. Madrid, 1989. Proceedings in Nuclear Physics B (Proc. Suppl) 16 (1990) 517.
- 4- I *The MARK-II Silicon Strip Vertex Detector and Performance of a Silicon Detector Telescope in the MARK-II Detector at the SLC*, Talk given at the “1989 IEEE Nuclear Science Symposium”. San Francisco (USA), 1990. Proceedings in IEEE Trans. Nucl. Sci. 38 (1991) 25-29.
- 5- I *Results from ZEUS on Deep Inelastic Scattering and Photoproduction at HERA*, Talk given at “HADRON 93”. Como (Italia), 1993. Proceedings in Nuovo Cim. 107A (1994) 2123-2140.
- 6- I *Results from ZEUS on Deep Inelastic Scattering at HERA*, Talk given at the “XXII International Winter Meeting on Fundamental Physics”, Jaca, Huesca, España, febrero 1994. Proceedings in Ed. Frontieres (Gif-sur-Yvette, France), 193-217, 1995.
- 7- I *Observation of Events at very high Q^2 in e^+p Collisions at HERA*, Talk given at the “Madrid Workshop on Low- x Physics”, Miraflores de la Sierra, Madrid, España, 18 - 21 Junio, 1997. Proceedings in World Scientific, 92-101, 1998.
- 8- I *Pomeron and Jet events at HERA*, Talk given at the “International Europhysics Conference on High Energy Physics” (Jerusalem, Israel), 19-25 Aug. 1997. Proceedings in Springer-Verlag (Berlin, Germany), 479-480, 1999.
- 9- I *Final States, Jets and Charm Production in Diffraction at HERA*, Talk given at the “XXIX International Conference on High Energy Physics” (Vancouver, Canada), 23-29 July 1998. Proceedings in World Scientific, 935-939, 1999.
- 10- I *Selected Topics on HERA Physics*, Talk given at the “XXVII International Meeting on Fundamental Physics” (Granada, Spain), 1-5 Feb. 1999. Proceedings in Acta Phys.Polon.B30: 2399-2418, 1999.
- 11- I *D^* Cross Sections in DIS and Extraction of F_2^c* , Talk given at the “International Europhysics Conference on High Energy Physics”, Tampere, Finlandia, 15-21 Julio, 1999. Proceedings in IOP (Bristol, UK), 452-453, 200.
- 12- I *Construction and Test Results of the ATLAS EM EndCap Colorimeter*, Talk given at the “8th Topical Seminar on Innovative Particle and Radiation Detectors”, Siena (Italy) 21-24 Octubre, 2002. Proceedings in Nucl.Phys.Proc.Suppl.125:122-127,2003.
- 13- I *A Taste of Heavy Flavor Physics at HERA*, Talk given at the “II Workshop on Theory, Phenomenology and Experiments in Heavy Flavour Physics”, Capri (Italy) Juni 2008.
- 14- I *LAGUNA at the LSC*, Talk given at the “Cracow Epiphany Conference 2010”, Cracow (Poland) January 2010.
- 15- I *About a Gadolinium-doped Water Cherenkov LAGUNA Detector*, Talk given at “CSSP2010” (Carpathian Summer School of Physics 2010 Exotic Nuclei and Nuclear/Particle Astrophysics III From nuclei to stars), Sinaia (Romania) July 2010
- 16- I *LAGUNA at the LSC*, Talk given at the “International Meeting on Fundamental Physics 2011”, Canfranc (Spain) February 2011.
- 17- I *The LAGUNA Feasibility Study for the LSC to Host a Next-Generation Mega-ton type Neutrino and Nucleon Decay Experiment*, Talk given at the “Open Meeting for the Hyper-Kamiokande Project”, Kashiwa (Japan) August 2012.

- 18- I** *The SuperK-gadolinium Project*. Talk given at “The XIIIth International Conference on Heavy Quarks and Leptons (HQL 2016)”; Blacksburg (VA, USA), May 2016.
- 19- P** *Astrophysics Potential of Hyper-Kamiokande*. Poster presented at “The XXXVIII International Conference on High Energy Physics (ICHEP 2016)”; Chicago (IL, USA), August 2016.
- 20- I** *Potential of Hyper-Kamiokande at some non Accelerator Physics and Nucleon Decay Search Programs*. Talk given at “The XXXVIII International Conference on High Energy Physics (ICHEP 2016)”; Chicago (IL, USA), August 2016.
- 21- I** *SuperK-Gd*. Talk given at “The EPS Conference on High Energy Physics (EPS-HEoP 2017)”; Venice (Italy), July 2017.
- 22- I** *Neutrino Oscillation Physics and Nucleon Decay with Hyper-Kamiokande*. Talk given at “The EPS Conference on High Energy Physics (EPS-HEoP 2017)”, Venice (Italy), July 2017.
- 23- I** *Radioactive Contaminations in precision Water-Cherenkov Physics ; the SuperK-Gd case*. Talk given at “TMEX-2018-WCP”; Warsaw (Poland), September 2018

Otras Ponencias o Seminarios

- 01- I** Informe-Ponencia invitada sobre la colaboración del Grupo Experimental de Altas Energías de la UAM, con la Industria, presentada en la “I Jornada de Cooperación Tecnológica en el Sector de Aceleradores”, organizada por el CDTI (Ministerio de Ciencia y Tecnología) y celebrada en INASMET (San Sebastián) el 10/12/1996.
- 02- I** Informe-Ponencia invitada presentada en la reunión de RECFA (“Restricted European Committee for Future Accelerators”) celebrada en Madrid el 28/02/1997 de título “The UAM-HEP group contributions to ZEUS”.
- 03- I** Informe-Ponencia invitada presentada en la reunión de RECFA (“Restricted European Committee for Future Accelerators”) celebrada en Barcelona el 29/03/2003 de título “The Experimental H.E.P. Group of the Universidad Autónoma de Madrid”.
- 04- I** Seminario invitado impartido en el “II Taller de Altas Energías” (Granada 5 a 16 de Mayo del 2003) de título “Diffraction, the Pomeron and Q.C.D”.
- 05- I** Seminario invitado en la Facultad de Ciencias de la Universidad Autónoma de Madrid el 05/11/2004 de título “El Aspecto Experimental de la Libertad Asintótica”.
- 06- I** Seminario invitado en “Getting Ready for the LHC”-training workshop (Madrid 23 a 27 de octubre de 2006) de título “The ATLAS experiment”.
- 07- I** *Super-Kamiokande, Neutron tagging in Water-Cherenkov Detectors and LAGUNA; The start of experimental v physics in the UAM*, Talk given at the “Reunión 2009 de la Red Nacional Temática de Astropartículas”. Alcalá de Henares, Junio 2009
- 08- I** *Status of the Japanese Super-Kamiokande Neutrino Experiment; the participation of the U.A.M.*. Invited seminar at University Alcalá de Henares, December 2013.
- 09- I** *About Measuring Leptonic CP Violation before Retiring*. Invited seminar at I.F.I.C. - University of Valencia, October 2014.
- 10- I** *Super-Kamiokande Plus [SKPLUS] a H2020 MSC RISE 2014*. Ponencia-Seminario, Sesión informativa Convocatoria RISE 2015 Acciones Marie Skłodowska - Curie (MSCA), MINECO, Madrid, febrero 2015
- 11- I** *Discovery of Neutrino Oscillations; the experimental program*. Seminar at the Faculty of Sciences, U.A.M.; December 2015
- 12- I** *Discovery of Neutrino Oscillations (the Massive Character of the Neutrinos); the experimental program*. Seminar at the Faculty of Sciences, University of Salamanca; February 2016

DIRECCIÓN Tesinas y TESIS DOCTORALES

■ Tesinas

- 1.- *Estudio de la medida de dE/dx con el detector FTD*; Silvia Gallego Queipo; Universidad Autónoma de Madrid, febrero 1993.
- 2.- *Estudio de la utilización de filtrado digital en el análisis de señales del detector FTD*; Enrique Diez Fernández; Universidad Autónoma de Madrid, enero 1994.
- 3.- *Análisis de los datos de la prueba de haz del Forward Plug Calorimeter del detector ZEUS*; Gastón García López; Universidad Autónoma de Madrid, septiembre 1998. **Premio Extraordinario de Licenciatura.**
- 4.- *Charmed Hadrons in DIS at HERA*; Manuel Zambrana Ramirez; Universidad Autónoma de Madrid, septiembre 2004 (DEA).
- 5.- *Análisis del gravitino como materia oscura a partir de los datos del telescopio espacial Fermi-LAT*; Germán A. Gómez Vargas; Universidad Autónoma de Madrid, octubre 2010 (Master).
- 6.- *Neutrino Physics with SuperK-Gd*; Diego González Vizoao; Universidad Autónoma de Madrid, junio 2020 (Master).

■ Tesis

- 1.- *Estudio de la producción de mesones con extrañeza y encanto en colisiones e^+p en HERA con el detector ZEUS*; Juan Pablo Fernández Ramos; Universidad Autónoma de Madrid, enero 1998. **Premio Extraordinario de Doctorado.**
- 2.- *Procesos difractivos duros en la dispersión e^+p inelástica en HERA*; Jose María Hernández Calama, Universidad Autónoma de Madrid, febrero 1998.
- 3.- *Two different cases of calorimetry in High Energy Physics: the ATLAS liquid argon electromagnetic end cap and the ZEUS Forward Plug Calorimeter*; Gastón García López, Universidad Autónoma de Madrid, abril 2000.
- 4.- *Sobre algunos aspectos del diseño y construcción del calorímetro electromagnético de argón líquido del experimento ATLAS*; Pablo A. Romero González, Universidad Autónoma de Madrid, octubre 2000.
- 5.- *Charm Electroproduction at HERA*; Ignacio Redondo Fernández, Universidad Autónoma de Madrid, julio 2001. **Premio Extraordinario de Doctorado.**
- 6.- *Measurement of D Mesons Production in Deep Inelastic Scattering at HERA*; Manuel Zambrana Ramírez, Universidad Autónoma de Madrid, octubre 2007.
- 7.- *Dark Matter Searches in the Gamma-ray Sky with the Fermi-LAT Space Telescope* [co-dirrección C. Muñoz]; Germán A. Gómez Vargas, Universidad Autónoma de Madrid, octubre 2013.:
- 8.- *Neutrino Physics in Present and Future Kamioka Water Cherenkov Detectors with Neutron Tagging*; P. Fernández Menéndez; UAM March 2017. **Recognized Outstanding Ph.D. Research; Springer Theses.**
- 9.- *Radioactivity Contamination in neutrino Experimental Physics: the Cases of NEXT and Super-Kamiokande Experiments*; Javier Pérez Pérez; UAM September 2017.

ORGANIZACION Y EDICION DE CONFERENCIAS

1. - *Proceedings of the XXI International Meeting on Fundamental Physics: PHYSICS AT HERA*; World Scientific (1994); F. Barreiro, L. Hervás, L. Labarga.
 2. - *Proceedings of the Madrid Workshop on Low x Physics*; World Scientific (1998); F. Barreiro, L. Labarga, J. del Peso.
 3. - *XXXIV International Meeting on Fundamental Physics*; El Escorial (Madrid), 2-7 abril 2006. F. Barreiro, C. Glasman, L. Labarga, J. del Peso, J. Terrón.
 4. - *V General Meeting of the LAGUNA Consortium*; Canfranc (Huesca), 27-29 abril 2010; L. Labarga.
 5. - *The 6th General Meeting of the Hyper-Kamiokande proto-Collaboration*; U.A.M. (Madrid), march 2018; L. Labarga.
 6. - *The 6th General Meeting of the Hyper-Kamiokande proto-Collaboration*; U.A.M. (Madrid), march 2018; L. Labarga.
 7. - *European Workshop on Water Cherenkov Precision Detectors for Neutrino and Nucleon Decay Physics (TMEX-2018-WCP)*; Warsaw (Poland), September 2018; L. Labarga, E. Rondio
-

OTROS MERITOS O ACLARACIONES QUE SE DESEE HACER CONSTAR

■ IMPACTO DE LAS PUBLICACIONES

- Autor de 661 publicaciones científicas en revista internacional, con una media de aproximadamente 134 citas por publicación (base de datos inSPIRE 20/07/2020)

■ COOPERACION INTERNACIONAL

- Mi actividad científica ha tenido desde su comienzo un carácter totalmente interenacional. No sólo por los años en los que he trabajado en laboratorios extranjeros, sino por que mis investigaciones/experimentos han sido siempre en colaboraciones internacionales.
- Responsable por parte española de un proyecto conjunto con la Universidad de Purdue (Indiana, EEUU), la responsable por parte americana era la Prof. D. Bortoletto, para el desarrollo y construcción del SVXII: detector de vértices de alta resolución del detector CDF.
- Coordinador de Convenios Internacionales para estudiantes pre- y post-graduados del Departamento de Física Teórica de la Universidad Autónoma de Madrid, habiendo gestionado y supervisado más de 40 intercambios.
- E.U. Erasmus-Mundus BEAM Staff Scholarship 2011-2014. Host institute: University of Okayama. Grant: 10.000,0 euros.
- Promotor del **Acuerdo Marco de Cooperación académica entre la Universidad Autónoma de Madrid y el Instituto para la Investigación en Rayos Cósmicos de la Universidad de Tokio (I.C.R.R.)**, noviembre 2012 → noviembre 2017.
- Promotor de la renovación **Acuerdo Marco de Cooperación académica entre la Universidad Autónoma de Madrid y el Instituto para la Investigación en Rayos Cósmicos de la Universidad de Tokio (I.C.R.R.)**, enero 2018 → .
- Representante español en el **Country Board** de la Colaboración Super-Kamiokande.
- Representante español en el **International Board of Representatives** de la proto-Colaboración Hyper-Kamiokande, enero 2014 →.
- Coordinador Europeo del Proyecto de Investigación H2020 MSCA-RISE-2014 641540-SKPLUS
- Coordinador Europeo del Proyecto de Investigación H2020 MSCA-RISE-2019 872546-SK2TK

■ OTROS

- Consultor para la agencia de financiación de proyectos del Ministerio de Educación y Ciencia (ANEP) y otras agencias regionales e internacionales.
- Miembro de la Comisiones Evaluadoras “Ramón y Cajal” y “Juan de la Cierva” 2007.
- Miembro de la Comisión Evaluadora “Ramón y Cajal” 2014.
- Cinco (5) tramos o sexenios de actividad investigadora valorados positivamente por la “Comisión Nacional Evaluadora de la Actividad Investigadora”

■ Particular a Física Experimental de Altas Energías

- Responsable último de la construcción en la UAM y tests en DESY del “ZEUS Forward Tracking Detector”
- Responsable último de la toma de datos (“Run Coordinator”) en las pruebas con haces controlados de electrones en DESY, de las cámaras de reconstrucción de trazas de ZEUS (año 1991)
- “Run Coordinator” del experimento ZEUS en 1993
- Líder y responsable último UAM en el desarrollo, construcción y tests del Calorímetro Electromagnético de ATLAS. Nótese que éste era un proyecto extraordinariamente ambicioso: ≈ 50 Tm de material, ≈ 35000 canales de lectura, una resolución en energía de $\approx 0.7\%$ a alta energía y clave para el descubrimiento del boson de Higgs en el LHC.

- “Run Coordinator” en las pruebas con haces controlados de fotones, electrones y muones de los módulos del calorímetro electromagnético de ATLAS en 2002 y 2003
- Investigador Principal del experimento *SuperK-Gd* en el LSC, EXP-06-2009, aprobado formalmente por su Consejo Rector en su reunión de diciembre 2009.
- Coordinador del “Estudio de Viabilidad de LAGUNA en el LSC”; este estudio puede encontrarse en <http://www.lsc-canfranc.es/Docs/Experiments/LAGUNA/LSC-Revision-20100512.pdf>
- “*Chair of the Technical Board*” en el Proyecto Europeo LAGUNA-LBNO (FP7-284518-LAGUNA-LBNO) de la UAM y otros 38 institutos europeos en su fase inicial.
- Impulsor de una participación española en el experimento Hyper-Kamiokande; Líder del diseño, desarrollo y construcción de las 20000 cubiertas anti-implosión para los Foto-multiplicadores de 20’ del detector interno de Hyper-Kamiokande.