

Barry Barish
Selected Publications
April 2016

[LIGO – Gravitational Wave Discovery](#)

Observation of Gravitational Waves from a Binary Black Hole Merger

LIGO Scientific & Virgo Collaborations (B.P Abbott (Caltech) *et al.*). Feb 11, 2016. 16 pp.
Published in **Phys.Rev.Lett.** **116 (2016) no.6, 061102**

[Laser Interferometer Gravitational-wave Observatory \(LIGO\)](#)

LIGO and the detection of gravitational waves

B.C. Barish (Caltech, Kellogg Lab), R. Weiss (MIT). 1999. 7 pp.
Published in **Phys.Today** **52N10 (1999) 44-50**

Advanced LIGO

LIGO Scientific Collaboration (J. Aasi (Caltech) *et al.*). Nov 17, 2014.
Published in **Class.Quant.Grav.** **32 (2015) 074001**
DOI: [10.1088/0264-9381/32/7/074001](https://doi.org/10.1088/0264-9381/32/7/074001)
e-Print: [arXiv:1411.4547](https://arxiv.org/abs/1411.4547) [gr-qc] | [PDF](#)

[International Linear Collider \(Global Design Effort\)](#)

The International Linear Collider

Barry Barish (Caltech), James E. Brau (Oregon U.). Nov 14, 2013. 41 pp.
Published in **Int.J.Mod.Phys.** **A28 (2013) no.27, 1330039**

The International Linear Collider Technical Design Report

Chris Adolphsen (ed.) (SLAC) *et al.*. Jun 26, 2013. 358 pp.
ILC-REPORT-2013-040, ANL-HEP-TR-13-20, BNL-100603-2013-IR, IRFU-13-59,
CERN-ATS-2013-037, COCKCROFT-13-10, CLNS-13-2085, DESY-13-062,
FERMILAB-TM-2554, IHEP-AC-ILC-2013-001, INFN-13-04-LNF, JAI-2013-001, JINR-
E9-2013-35, JLAB-R-2013-01, KEK-REPORT-2013-1, KNU-CHEP-ILC-2013-1, LLNL-
TR-635539, SLAC-R-1004, ILC-HIGRADE-REPORT-2013-003
e-Print: [arXiv:1306.6328](https://arxiv.org/abs/1306.6328)

[Magnetic Monopoles and Neutrino Oscillations \(MACRO\)](#)

Final results of magnetic monopole searches with the MACRO experiment

MACRO Collaboration (M. Ambrosio *et al.*). Jul 2002. 13 pp.
Published in **Eur.Phys.J. C25 (2002) 511-522**

Atmospheric neutrino oscillations from upward through going muon multiple scattering in MACRO

MACRO Collaboration (M. Ambrosio *et al.*). Apr 2003. 10 pp.
Published in **Phys.Lett. B566 (2003) 35-44**

[Weak Neutral Currents and Quark Structure \(Fermilab\)](#)

Exploratory Study Of High-energy Neutrino Interactions.

B.C. Barish (Caltech) *et al.*. 1973. 4 pp.
Published in **Phys.Rev.Lett. 31 (1973) 565-568**

Neutral Currents in High-Energy Neutrino Collisions: An Experimental Search

B.C. Barish, J.F. Bartlett, K.W. Brown, D. Buchholz, F. Jacquet, F.S. Merritt, F.J. Sciulli, H. Suter (Caltech), H.E. Fisk, G. Krafczyk (Fermilab). Dec 1974. 11 pp.
Published in **Phys.Rev.Lett. 34 (1975) 538**

[Antiproton – Proton Annihilations \(Brookhaven Lab\)](#)

Anti-proton-proton annihilation into electron-positron pairs and gamma-ray pairs

D.L. Hartill, B.C. Barish, D.G. Fong, R. Comez, J. Pine, A.V. Tollestrup, A.W. Maschke (Fermilab), T.F. Zipf (Stanford U., Phys. Dept.). 1970. 9 pp.
Published in **Phys.Rev. 184 (1969) 1415-1423**

[PhD Thesis – UC Berkeley](#)

A Study Of The Reaction $\pi^- p \rightarrow \pi^- \pi^0 p$ At 310-mev And 377-mev

Barry C. Barish (LBL, Berkeley). Aug 1962. 62 pp.
UCRL-10470