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Short Biography

Physics studies at the Science Faculty UNAM, PhD 1970 from the University of Heidelberg and the Max Planck Institute of Nuclear Physics. Pioneering studies with ultra-relativistic nuclear beams first at the Bevalac accelerator of the Lawrence Berkeley Laboratory from 1975-1984 then at the SPS accelerator of the CERN laboratory 1985-2005, designing and building experiments that measured the compressibility of nuclear matter and the production of the quark gluon plasma, a new state of matter which existed 10 microseconds after the Big Bang. Participated since the beginning in the ALICE experiment at the Large Hadron Collider at CERN working in several detectors. Returned 2005 to the Instituto de Física, UNAM, where he was the leader of the VOA project that designed and built in Mexico a trigger detector for the ALICE experiment.

Since 2008 he has participated in the HAWC gamma ray experiment being in 2011 the leader of CONACyT's Laboratorio Nacional HAWC de Rayos Gamma.

Data storage and analysis of the HAWC gamma ray observatory
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