



Seminarios de Física Teórica
Fisika Teorikoa: Hitzaldiak

Three New Lensing Phenomena

Tom Broadhurst

IKERBASQUE and UPV/EHU

Abstract I will describe the first detection of a Super Massive Black Hole revealed by its Einstein Ring, in Hubble Frontier Field data, and also in the same data I will show three individual stars detected at high redshift that are magnified 50000x as they cross the lensing caustic of a moving cluster. These events we see are modulated by microlensing, consistent with the level predicted by the intra-cluster light, and thoroughly exclude cluster dark matter comprised of 30 M_{sun} black holes suggested on the basis of the first LIGO event. An alternative lower mass, higher redshift lensed solution for the first LIGO detection is also presented, incidentally.

Prof. A. Chamorro Seminar Room, Dept. of Theoretical Physics, Corridor 4.-2.

Wednesday, Oct. 26th, 2016

Time:11:40 am