



Physics Department seminar
DIPARTIMENTO DI FISICA, VIA CELORIA 16, MILANO

Aula Consiglio in presence and streaming

<https://fisica-unimi.zoom.us/j/96139229142?pwd=ZGpqSF11Q2ZkbUdILy9iUUNkbktXZz09>

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Comparing Rival Dark Matter ideas with New Lensing detections

"Wave Dark matter" as a Bose-Einstein condensate is emerging as perhaps the most viable interpretation (in the absence of WIMPs), predicting corrugated Einstein rings on the de Broglie scale, which we appear to detect in radio lenses on milli-arcsecond scales. Alternatively, primordial black holes inspired by LIGO are limited by the light curves of individual stars that we have detected with Hubble recently in giant arcs. Instead, we argue most LIGO events are better explained as highly magnified, conventional stellar black holes of $\sim 10 M_{\text{sun}}$ at cosmological distances, $1 < z < 5$ with waveforms redshifted to larger chirp masses.



Students are cordially invited – Contact silvia.leoni@mi.infn.it