

LAM neutrino activities/interests

IPhU neutrino day

29 june 2021



Neutrino astronomy:

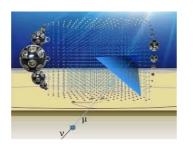
S. Basa, E.Nezri

ANTARES: Members of the collaboration (Former members M.Marcellin, P.Amram)

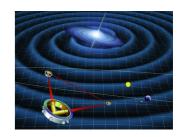
KM3NeT : Observers. Ticket for full membership. No agreement between IN2P3 and INSU → IPhU?

Science:

- multi messenger astronomy





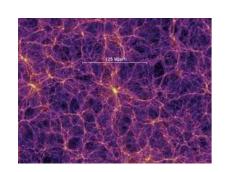


- gamma ray burst

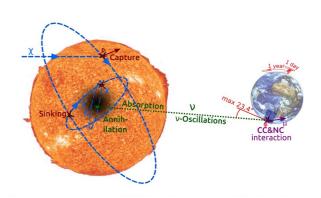


- dark matter indirect detection with neutrinos, signal calculations:

HEP: BSM models ASTRO: Earth, Sun, Galactic center/halo, Dwarf spheroidal galaxies Diffuse emission







Past activities, interests, projects

Neutrino phenomenology

- Mass models, oscillations
- Leptogenesis
- RH Neutrino dark matter

Neutrinos and Cosmology

C.Schimd, E.Jullo, E.Nezri

- The sum of neutrino masses $\sum m_
u$

Some people at LAM in DESI collaboration but not working on this aspect (yet ?).

- Large Scale Structures and cosmological simulations including neutrinos