

Neutrino XVth Rencontres du Vietnam

4-10 August 2019

ICISE

PROGRAM DISCUSSION

THEME AND TITLE

THEME to be discussed. proposal: the first collisions in LEP took place 9 August 1989 so 2019 will be the 30th anniversary of the discovery that there are only three families of neutrinos, which was published on 12-16 October 1989. This leads to discussion of what we know today about these three families, what are the consequences, what physics lies beyond, and how to access it.

TITLE to be discussed: "Three neutrinos and beyond"? "Three neutrinos to make the world"?

few ideas of speakers:

- 2 days celebrating the 3rd neutrino family discovery
- tau neutrino: Feldman, Niwa, Vuillemin, diLella, Davier, Kirkby, Barish, Pich, Paolone etc etc...
- three neutrinos: Ellis, Spiro, Denegri, Sadoulet (before LEP)
- LEP and SLC start: Steve Myers, Schopper, Rubbia...
- determination of the number of neutrino species Gary Feldman, Jonathan Dorfan, Jacques Lefrançois, Monica Pepe, Sam Ting, Daniel Treille, Albrecht Wagner etc...
- neutrino oscillations Kajita, McDonald, etc. Atmos, T2K, NOvA, KyperK&DUNE, Solar DCHOOZ, RENO, etc.. Yifang Wang, Jung Cao,
- Solar neutrinos
- physics of heavy neutrinos
- neutrinoless double beta decay
- see-saw and origins of neutrino mass
- Grand unification
- search for the origin and consequences of neutrino masses
- neutrinos at colliders
- Shaposhnikov, Serra, Antusch, Ruiz, Michael Ramsey-Musolf, Tao Han, Marco Drewes
- Neutrino at Future facilities