

# Solvay-Francqui Workshop on Neutrinos: from reactors to the cosmos Program (27 – 29 May 2015)

## Wednesday 27 May

09:00 10:00 REGISTRATION & COFFEE

**Session Chair: Alexander Sevrin**

10:00 10:30 Welcome by Solvay Institutes, Francqui Foundation and the organising committee

**Session Chair: Catherine De Clercq**

10:30 11:30 Jean-Marie Frère *An introductory talk: are neutrinos different?*

11:30 12:15 Eli Waxman *The origin of cosmic neutrinos and the high-energy sky, a theoretical perspective*

12:15 13:00 Christian Spiering *Cosmic neutrinos, an experimental overview*

13:00 14:15 LUNCH

**Session Chair: Dirk Ryckbosch**

14:15 15:00 Karl-Heinz Kampert *Cosmic Rays, an experimental overview*

15:00 15:45 Stefan Klepser *High Energy Gamma rays, an experimental overview*

15:45 16:05 COFFEE BREAK

**Session Chair: Nick Van Eijndhoven**

16:05 16:50 Thomas Hambye *Leptogenesis*

16:50 17:25 Francis Halzen *IceCube extension plans*

17:25 18:00 Maarten De Jong *KM3NET and ANTARES extension plans*

18:30 20:00 Poster session and walking dinner

## Thursday 28 May

### Session Chair: Antoine Van Proeyen

10:00 10:45 Laura Baudis *Direct dark matter detection experiments, an overview*

**10:45 11:05 COFFEE BREAK**

### Session Chair: Jean René Cudell

11:05 11:50 Carlos de los Heros *Indirect search for dark matter with neutrinos*

11:50 12:35 Malcolm Fairbairn *Theoretical view on dark matter results and expectations from the next generation of data and the LHC*

12:35 12:45 Group Photo

**12:45 14:15 LUNCH**

### Session Chair: Michel Tytgat

14:15 15:00 Eligio Lisi *Phenomenology of neutrino oscillations*

15:00 15:45 Alfons Weber *Recent results from long-baseline neutrino oscillation experiments at accelerators*

**15:45 16:05 COFFEE BREAK**

### Session Chair: Evelyne Daubie

16:05 16:50 Marcos Dracos *Recent results from reactor experiments and prospects for the future*

16:50 17:35 Mauro Mezzetto *Future long baseline facilities at accelerators*

**19:30 BANQUET**

## Friday 29 May

### Session Chair: Petr Tiniakov

9:30 10:15 Guido Drexlin *Direct neutrino mass measurement*

10:15 11:00 Ettore Fiorini *Neutrinoless double beta decay*

**11:00 11:30 COFFEE BREAK**

### Session Chair: Juan Antonio Aguilar Sánchez

11:30 12:15 Nick Van Remortel *Short-baseline results and sterile neutrinos*

12:15 13:00 Stavros Katsanevas *A report by Appec on the expected evolution of astroparticle physics in Europe, and world-wide*

**13:00 LUNCH**