

# **24th Vietnam School of Physics: Particles and Cosmology**

**lundi 20 août 2018 - vendredi 31 août 2018**

**Quy Nhon**

## **Programme Scientifique**

First week (20 – 25 August):

**Standard Model (SM): Margarete Muehleitner** (Karlsruher Institute of Technology, Karlsruhe, Germany), 7 lectures; link to lecture notes and exercises

**Experimental methods and physics at the LHC (Exp): Shin-Shan Yu** (National Central University, Chung-Li, Taiwan), 7 lectures; see timetable for slides

**Cosmology and Dark Matter (C&DM): Changbom Park** (Korea Institute for Advanced Study, Seoul, Korea), 7 lectures; lecture notes part 1  
Second week (27 – 31 August):

**QCD: Gudrun Heinrich** (Max-Planck-Institut für Physik, Munich, Germany), 6 lectures; lecture notes part 1 and exercises.

**Beyond SM (BSM): Felix Bruemmer** (University of Montpellier, Montpellier, France), 6 lectures; accompanying notes and exercises with solutions

**Introduction to Monte-Carlo Event Generators (MC): Johannes Bellm** (Lund University, Lund, Sweden), 6 lectures; link to slides and tutorial

*Each lecture lasts 90 minutes. Exercises on each of the topics are also envisaged. For the MC topic, there will be hands-on sessions, so bring along your laptop. There will be also mini-seminar sessions for participants to give 15-minute talks about their theses or research projects.*