

CosmoLattice School, Sept 5-8 2022, Valencia



Report of Contributions

Contribution ID : 2

Type : **not specified**

Lesson 1: Welcome to the Lattice!

Monday, 5 September 2022 09:30 (90)

Presenter(s) : FIGUEROA, Daniel G. (IFIC)

Contribution ID : 3

Type : **not specified**

Lesson 2a: Introduction to Inflation and post-inflationary dynamics

Monday, 5 September 2022 11:30 (60)

Presenter(s) : TORRENTI, Francisco (Basel U.)

Contribution ID : 4

Type : **not specified**

Lesson 2b: Primer on Lattice simulations: ϕ^4 in an expanding background

Monday, 5 September 2022 14:30 (90)

Presenter(s) : TORRENTI, Francisco (Basel U.)

Contribution ID : 5

Type : **not specified**

Practice session 1

Monday, 5 September 2022 16:30 (90)

Contribution ID : 6

Type : **not specified**

Lesson 3: Evolution algorithms for ordinary differential equations

Tuesday, 6 September 2022 09:30 (90)

Presenter(s) : FLORIO, Adrien (Stony Brook U.)

Contribution ID : 7

Type : **not specified**

Lesson 4: Lattice formulation of interacting scalar fields in an expanding background

Tuesday, 6 September 2022 11:30 (60)

Presenter(s) : FIGUEROA, Daniel G. (IFIC)

Contribution ID : 8

Type : **not specified**

Topical 1: Non-linear dynamics of non-minimally coupled scalar fields

Tuesday, 6 September 2022 16:30 (90)

Presenter(s) : OPFERKUCH, Toby (Universität Bonn); STEFANEK, Ben (Zurich U.)

Contribution ID : 9

Type : **not specified**

Practice session 2

Tuesday, 6 September 2022 14:30 (90)

Contribution ID : **10**

Type : **not specified**

Topical 2: Creation and evolution of primordial gravitational waves

Wednesday, 7 September 2022 09:30 (90)

Presenter(s) : BAEZA, Jorge; LOAYZA ROMERO, Nicolas (IFIC)

Contribution ID : **11**

Type : **not specified**

Practice session 3

Wednesday, 7 September 2022 11:30 (60)

Contribution ID : 12

Type : **not specified**

Lesson 5: Lattice simulations of U(1) gauge theories

Wednesday, 7 September 2022 14:30 (90)

Presenter(s) : TORRENTI, Francisco (Basel U.)

Contribution ID : 13

Type : **not specified**

Lesson 6: Lattice simulations of SU(2) gauge theories

Wednesday, 7 September 2022 16:30 (90)

Presenter(s) : FLORIO, Adrien (Stony Brook U.)

Contribution ID : 14

Type : **not specified**

Topical 3: Non-linear dynamics of axion inflation

Thursday, 8 September 2022 09:30 (90)

Presenter(s) : LIZARRAGA, Joanes (UPV/EHU, Bilbao); URIO, Ander (UPV/EHU, Bilbao)

Contribution ID : 15

Type : **not specified**

Lesson 7: Parallelization techniques in CosmoLattice

Thursday, 8 September 2022 11:30 (30)

Presenter(s) : FLORIO, Adrien (Stony Brook U.)

Contribution ID : 16

Type : **not specified**

Summary & overview

Thursday, 8 September 2022 14:30 (90)

Presenter(s): FIGUEROA, Daniel G. (IFIC); FLORIO, Adrien (Stony Brook U.); TORRENTI, Francisco (Basel U.)

Contribution ID : 17

Type : **not specified**

Practice & discussion

Thursday, 8 September 2022 16:30 (90)

Contribution ID : **18**

Type : **not specified**

Topical 4: Plotting 3D data with CosmoLattice

Thursday, 8 September 2022 12:00 (30)

Presenter(s) : MARSCHALL, Kenneth (Basel U.)