

Exact solutions in classical field theory: Solitons, black holes and boson stars

Workshop in honor of Prof. Yves Brihaye

UMONS, 2–3 June 2022

Program

Thursday, June 2

Salle Mirzakhani, 1st floor, bâtiment De Vinci

09:00 – 09:30

Opening

09:30 – 10:30

J. Kunz

New Branches of Solutions – From Sphalerons to Black Holes

10:30 – 11:00

Coffee break

11:00 – 12:00

P. Kosinski

Chiral particles from conformal symmetry (online)

12:00 – 13:00

M. Consoli

Experimental signals for a second resonance of the Brout-Englert-Higgs field

13:00 – 14:30

Lunch

14:30 – 15:30

F. Buisseret

Z_N -balls: Existence and application to Yang-Mills plasma

15:30 – 16:30

E. Radu

Asymptotically Flat, Spherical, Self-Interacting Scalar, Dirac and Proca Stars (online)

16:30 – 17:00

Coffee break

17:00 – 18:00

L. Ducobu

Hairy black holes, boson stars and non-minimal couplings from Einstein to teleparallel gravity

Friday, June 3

Salle Mirzakhani, 1st floor, bâtiment De Vinci

09:00 – 10:00

T. Tchrakian

Chern-Simons (CS), Higgs-Chern-Simons (HCS) and Skyrme-Chern-Simons (SCS) densities

10:00 – 11:00

C. Herdeiro

Bosonic stars, gravitational waves and ultralight dark matter (online)

11:00 – 11:30

Coffee break

11:30 – 12:30

B. Hartmann

Black holes and boson stars with new scalar hair

12:30 – 13:00

Discussion & closing