SOLVAY WORKSHOP
THE DARK SIDE OF BLACK HOLES
VENUE: ULB, Campus de la Plaine, Brussels Building N.O. - 5th Floor - SOLVAY ROOM

Program (3 - 5 April, 2019)

WEDNESDAY 3 APRIL 2019

09:40 - 10:00 Registration
10:00 - 10:10 Welcome address by Marc Henneaux
Director of the Solvay Institutes
10:10 - 10:50 Speaker: Bernard Carr
Microscopic and macroscopic black holes: linking the light and the dark
10:50 - 11:20 COFFEE BREAK
11:20 - 12:00 Speaker: Sergei Dubovsky
Looking for axions with astrophysical black holes
12:00 - 12:40 Speaker: Jo van den Brand
GW experiments (title TBC)
12:40 - 14:00 LUNCH
14:00 - 14:40 Speaker: Licia Verde
Primordial black holes: the cosmology connection
14:40 - 15:20 Speaker: Teruaki Suyama
PBH binary rate (title TBC)
15:20 - 15:50 COFFEE BREAK
15:50 - 16:30 Speaker: Hai Bo Yu
Self-interacting Dark Matter
16:30 - 17:10 Speaker: Igor Tkachev
Axion stars: formation and collapse
17:10 - 18:30 WELCOME DRINK
THURSDAY 4 APRIL 2019

09:20 - 10:00  Speaker: Juan-García Bellido
                *Signatures of Primordial Black Holes as Dark Matter*

10:00 - 10:40  Speaker: Yacine Ali-Haïmoud
                *PBH as dark matter (title TBC)*

10:40 - 11:10  **COFFEE BREAK**

11:10 - 11:50  Speaker: Francesca Calore
                *Constraining Primordial Black Holes with High-energy Astrophysics*

11:50 - 12:30  Speaker: Alexander Kashlinsky
                *The Bright Side of Black Holes: dark matter, primordial black holes and the cosmic infrared background*

12:30 - 12:40  **GROUP PHOTO**

12:40 - 14:00  **LUNCH**

14:00 - 14:40  Speaker: Vitor Cardoso
                *The bright side of Black Holes*

14:40 - 15:20  Speaker: Paolo Pani
                *Black-hole superradiance: probing ultralight bosons with compact objects and gravitational waves*

15:20 - 15:50  **COFFEE BREAK**

15:50 - 16:30  Speaker: Martti Raidal
                *Constraints on PBH binaries from N-body simulations*

16:30 - 17:10  Speaker: Christian Byrnes
                *Constraining cosmology with primordial black holes*

20:00  Banquet at the Scheltema Restaurant,
       Rue des Dominicains, 7 - 1000 Brussels
FRIDAY 5 APRIL 2019

09:20 - 10:00 Speaker: Chris Kouvaris  
Dark stars, Dark Matter and Black Holes

10:00 - 10:40 Speaker: Joseph Bramante  
Explosive Dark Matter Production of Heavy Elements in Compact Stars

10:40 - 11:10 COFFEE BREAK

11:10 - 11:50 Speaker: Anne Green  
Microlensing constraints on Primordial Black Hole dark matter

11:50 - 12:30 Speaker: Joachim Kopp  
Femtolensing Constraints on Primordial Black Holes

12:30 - 14:00 LUNCH

14:00 - 14:40 Speaker: Alexander Dolgov  
New data about massive black holes and possible interpretation