Session Program

15–17 Jun 2022

Fysikdagarna 2022

Sektionen för atom-, molekyl- och optisk fysik

Wednesday 15 June

13:00

Sektionen för atom-, molekyl- och optisk fysik: AF Borgen: Gustafscenen

Session | **Location:**

13:00–13:15 **Welcome and short introduction to AMO physics in Lund and Sweden**

Speaker
Jan Marcus Dahlström

13:15–13:40 **Cooling dynamics of nitrogen-containing PAH cations (PANHs)**

Speaker
Suvasthika Indrajith

13:40–14:05 **Quantum computing in rare-earth-ion-doped crystals**

Speaker
Adam Kinos

14:05–14:30
Ultrafast nanophotonics: from all-optical control of exciton dynamics towards plasmon-tailored nano-chemistry

Speaker
Dr Nicolò Maccaferri

14:30–14:40 **Atomic astrophysics for Galactic evolution**

Speaker
Madeleine Burheim

14:40–14:50 **Understanding Dynamic Calculations of Anharmonic Infrared Spectra**

Speaker
Åke Andersson

14:50–15:00
On the interplay of fluorescence, dissipation, and molecular dissociation for a model diatomic molecule in a quantum optical cavity

Speaker
Megha Gopalakrishna

15:00–15:30 **Coffee break**

15:30–15:55 **Shooting X-rays at the nitrogen molecule like it's 2022**

Speaker
Ludvig Kjellsson

15:55–16:20 **Exploring crystallisation in ”no man’s land’**

Speaker
Marjorie Ladd Parada

16:20–16:30 **Relativistic laser-electron acceleration from nanotargets**

Speaker
Aitor De Andres Gonzalez

16:30–16:40 **A Levitating Droplet as a Toy Atom**

Speaker
Javier Tello Marmolejo

16:40–16:50 **fs-recombination in Fe-based solar cells limits the performance**

Speaker
Linnea Lindh

16:50–17:00 **Multiconfigurational effects in an iron-nitrosyl (FeNO) complex.**

Speaker
Michael Coates

17:00–17:10
A Green's function method for the two-dimensional frustrated spin-1/2 Heisenberg magnetic lattice

Speaker
Zhen Zhao

17:10