

Astro-, Geo- and Plasma Physics

Convener: Simona Toscano (ULB), Forum-H

14:30 – 15:10 Invited talk: **Simone Russo** (European Commission, Joint Research Centre, Ispra, Italy)

[*Half a degree and rapid socioeconomic development matter for heatwave risk*](#)

15:10 – 15:30 **Elisa Pinat** (Royal Observatory of Belgium, Brussels)

[*Measuring snow seasonal variations in Antarctica with GPS*](#)

15:30 – 15:50 **Brecht Laperre** (KULeuven)

[*Prediction of the Dst-index using a Long Short-Term Memory network*](#)

15:50 – 16:10 **Jozef Ongena** (LPP/ERM-KMS)

[*Physics applications of ion-cyclotron heating on Wendelstein 7-X*](#)

16:10 – 16:40 **Coffee break**

16:40 – 17:00 **Dirk Van Eester** (LPP/ERM-KMS)

[*The challenge of modelling wave propagation and damping in hot, magnetised plasmas in fusion machines*](#)

17:00 – 17:20 **Aurélien Sourie** (ULB)

[*Constraining the interior of neutron stars with gravitational-wave observations*](#)

Posters:

AGP-1-C **Giorgio Sonnino and Pasquale Nardone** (ULB)

[*Transport Processes in Tokamak-plasmas in Fully Collisional Regime*](#)

AGP-02 **Fabrice Louche** (LPP/ERM-KMS)

[*Three-dimensional RF modelling of the revised ITER ICRF launcher*](#)

AGP-03 **Ragona Riccardo** (RMA)

[*Progress on the design of a DEMO high power ICRH travelling wave antenna mock-up to be tested on WEST*](#)