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Temporal variation of line radiation from the GTS-ECRIS at iThemba labs

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Abstract content
 (Max 300 words)

Measurement of the radiation emitted from a plasma has been used for the determination of the electron density and temperature in space physics. We will report here on a first attempt to use these plasma diagnostics on the ECR ion source at iThemba LABS. Our investigation will be on the processes leading to a transient current phenomenon known as the Pre-glow affect in ECR ion sources operated in pulsed mode. Therefore the investigation has to be performed with unprecedented time resolution, which will yield new information on this plasma breakdown process.

Apply to be
 considered for a student
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No

Level for award
 (Hons, MSc,
 PhD)?

PhD

Main supervisor (name and email)
and his / her institution

Koivisto Hannu

E-mail Address(es):

Hannu Koivisto, hannu.koivisto@phys.jyu.fi

Would you like to
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No

Primary author: Mr SAKILDIEN, Muneer (iThemba LABS)

Co-author: Dr THOMAE, Rainer (iThemba LABS)

Presenter: Mr SAKILDIEN, Muneer (iThemba LABS)

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