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19 -Pulsed-Target Magnetron-Enhanced ICP Plasma System

Tuesday, June 4, 2019 4:55 PM (2 minutes)

In this poster we present a new pulsed-target magnetron-enhanced plasma system, with applications in plasma materials processing and fundamental plasma physics. This system embeds a high-density magnetron discharge within a relatively uniform medium-density Inductively Coupled Plasma (ICP). We report on experimental studies of this unique plasma system using an RF-compensated Langmuir probe for plasma density and electron temperature measurements, as well as a high-speed camera to capture rapidly moving plasma structures. Preliminary modelling results using the VSim PIC simulation code will also be presented.

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