



Call for papers – Special issue of *Journal of Plasma Physics*

Dear Colleague,

The *Journal of Plasma Physics* is creating a new Special Collection on the topic of **Diagnostics of dust in plasmas - laboratory, space, and fusion plasmas**. This Collection is envisioned as a tutorial of current diagnostic techniques that can be of use for graduate students and researchers beginning their career as well as providing a useful reference for experienced researchers. This Collection seeks to gather input from a broad spectrum of research topics - including laboratory dusty plasmas, microgravity complex plasmas, dust in fusion plasmas, and dust detection for space and astrophysical measurements. Papers written for this collection should be written in the style of a review.

We are proposing a common format for these papers:

1. A brief description of the physical properties of the dust in plasma or dusty plasma that are being measured and why these measurements are important.
2. A summary of the diagnostic method that includes:
 - (a) A description of the physical basis for the measurements (i.e., how to go from the measurement to the desired physical property)
 - (b) A description of the hardware / software requirements to make the measurement
3. Discuss the parameter range of plasma conditions over which this technique can be used; i.e., what are the limitations on this measurement technique.
4. Give examples of measurements made using this technique.
5. Discuss future developments or refinements of the technique that could extend its applicability.

We would also entertain "concept" papers in which you might consider describing a new type of diagnostic approach.

We propose a submission deadline of **December 2, 2015** and papers will be published online as soon as they are ready.

If you have any questions, please do not hesitate to get in touch with Enzo Lazzaro or Edward Thomas.

Please send us a message if you are interested in submitting a paper for this collection.

Best Regards,

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