



Dale Meade &lt;dmeade@pppl.gov&gt;

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## response to your inquiry on international collaboration

1 message

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**Michio Okabayashi** <mokabaya@pppl.gov>

Mon, Dec 19, 2011 at 2:24 PM

To: Dale Meade &lt;dmeade@pppl.gov&gt;

Cc: Raffi Nazikian &lt;rnazikia@pppl.gov&gt;

Hi Dale,

Sorry, this late response. I would like to get your attention to our RWM physics development over last 10-15 years.

The RWM research was benefitted by the collaboration and the communication building up our own workshop.

First, the RWM is a part of "machine physics", since the uncorrected error field is a strong factor for the plasma response. Also, the mode onset depends on the macro plasma parameters near the operational limit. Any data from one device cannot be accepted as universal phenomenon. Common ground was established only by comparing the experimental data of DIII-D, NSTX, RFX-mod, JET and JT-60SU.

Secondly, ten or fifteen years ago, only one or two theory people were willing to look at "messy" machine physics subject. The collaboration is the only way to develop the theoretical understanding.

Thirdly, we initiated our own annual workshop "active MHD control workshop". Last month, we had the 16<sup>th</sup> meeting with more than 50 participants. Interestingly, this year, about half of participations were foreign participants. Twelve years ago, this workshop has become the Joint US/Japan MHD workshop, which is to be held at Toki in Japan as the 12<sup>th</sup> MHD next March. A reason of longevity of this workshop is well-focused subjects rather than simple "general MHD workshop".

In addition, parts of presentations are now published in a "special issue" of PPCF.

I hope our experience will be useful for organizing international collaborations.

michio

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