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DGAR – IZEST

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Letter of interest

Dear Prof. Mourou

By this letter we want to express our strongest support and interest to participate into the activities of the International Zetta-Exawatt center IZEST, which was created a year ago (Nov 29th 2011) under the initiative of the ECOLE POLYTECHNIQUE and the COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES.

For our research center, that endeavours – together with the international FAIR GmbH – the construction of a heavy-ion accelerator of unprecedented magnitude, the coupling of high-intensity lasers to accelerators has the potential to create synergies and multiply the experimental capabilities of our machine. Two important scientific subjects of FAIR are high energy-density plasma physics and ultra-high field atomic physics. In both fields the combination of laser and ion beams plays an important role. Lasers of extreme power, in synergy with accelerator, plasma and atomic science, have the potential and great promise to revolutionise the entire scientific landscape and we foresee coupled laser-ions experiments at many locations of the new accelerator.

For the foreseen experiments, the need for laser technological development and research in the field of laser is high. We also are convinced that the rapid technological development of lasers will soon enable new experiments in basic science as well as applied physics. Therefore we are highly interested in drawing a close collaboration with a center that is at the forefront of laser technology and its connex applications.

4th October 2012

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In this context, we will work in close collaboration with the other IZEST participants and support the IZEST roadmap that includes designing experiments to be conducted at the PHELIX laser at GSI-Darmstadt.

For GSI Helmholtzzentrum für Schwerionenforschung GmbH

A handwritten signature in black ink, appearing to read 'H. Stöcker'.

Horst Stöcker