



Dear Professor Mourou

August 24, 2012

By this letter we want to express our enthusiasm to join the International Zetta-Exawatt center IZEST, which was created a year ago (Nov29th 2011) under the initiative of the ECOLE POLYTECHNIQUE and the COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES. This letter of support will be replaced within six months by an MOU between PRINCETON ULTRAHIGH LASER INTENSITY PHENOMENA [PULIP] and IZEST.

The PULIP, subscribe fully to IZEST mission that is:

1. to definite novel laser architectures and road map of the next generation of ultra high peak power/Intensity and also the High average power lasers.
2. to facilitate the scientific and technical coordination among members of the international scientific community eager to discover new paradigms under pinned by extreme high intensity lasers. Particular attention will be devoted to:
 - prompt accelerations
 - high energy fundamental physics, physics beyond the Standard Model
 - vacumm structure
 - dark matter search
 - TeV Astrophysics and to the development of very high intensity lasers.
 - societal application like proton therapy, nuclear transmutation.

The PRINCETON ULTRAHIGH LASER INTENSITY PHENOMENA [PULIP], funded by the Department of Energy, National Science Foundation and Department of Defence (all USA) is Princeton University laboratory, where several pioneering works on X-Ray Lasers and Femtosecod Plasma Laser have been demonstrated.

PULIP contribution to IZEST will be in the areas of:

- novel sources of high energy radiations and particles,
- fiber-based high peak power and high average power lasers.
- Laser in the relativistic lambda cubed regime.

The PULIP will actively seek State and National funding in the IZEST's relevant area of interest.

PULIP is expected to be an active member of the participant council formed by the heads of the IZEST supporting laboratories. By meeting twice a year the participating council will help to define IZEST's strategy before it is submitted for approval by the steering committee composed of the Ecole Polytechnique and the CEA. The participant council provides also constant scientific and technical guidance to its management.

Lastly, it is PULIP intention to participate at the first Participant Council that will be held at the next IZEST Conference on Laser-based High Energy Physics at Strathclyde, Scotland on Nov.12, 2012.

Sincerely Yours,

A handwritten signature in black ink, appearing to read 'S. Suckewer', written over a horizontal line.

Szymon Suckewer

Professor

Director of Plasma Science & Technology Program

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