

PLASMA 2010

The 7th International Symposium on Intrinsic Josephson Effects
and Plasma Oscillations in High- T_c Superconductors

April 29th-May 2nd, 2010, Hirosaki University, Japan

On behalf of the international organizing committee the 7th International Symposium on Intrinsic Josephson Effects and Plasma Oscillations in High- T_c Superconductors (PLASMA 2010) will be held during April 29th-May 2nd at the 50th Anniversary Hall in Hirosaki University, Aomori prefecture, Japan. This series of symposium was initiated by two Professor Emeriti, T. Yamashita and M. Tachiki on the occasion of the novel Josephson plasma phenomenon in high temperature layered superconductors. This symposium is the 7th one followed by Pohang (2008), London (2006), Tsukuba (2004), Pommersfelden (2002), and Sendai (2000, 1997).

Due to the fact that the activity of this field has activated by the recent discovery of the continuous, intense and intense terahertz emission of electromagnetic radiation from tinny mesas of single crystal of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8.5}$, the research area is rapidly expanding to variety of new directions of science and technology fields from pure scientific studies like quantum information processing to pure engineering science like medical imaging applications. This is our hope that the future prosperity in the world is brought by the applications born and developed here. Now, it is a right moment for all researchers in this field to get together in order to share information, knowledge, and understanding of nature associated with the rich and complex Josephson phenomena.

Topics

- Terahertz oscillations and their applications
- Terahertz source and detectors
- Josephson vortex dynamics
- Josephson plasma (collective excitation)
- Josephson effects in intrinsic Josephson junctions
- Macroscopic quantum phenomena and qubits
- Quantum information and its technology
- Quantum communication
- Metamaterials
- Wave guides, circuits, and wiring
- Others (including iron-based superconductors)
- Exotic and unconventional superconductors

Conference style

PLASMA2010 is mainly composed of plenary and technical sessions. Submitted abstracts will be presented in oral or poster sessions scheduled from April 30th-May 2nd. Student award will be given to young students presenting outstanding works.

Organization

•Program Committee

T Yamashita (NIMS, Japan)
M. Tachiki (Univ. of Tsukuba, Japan)
K. Kadowaki (Univ. of Tsukuba, Japan)

•Local Steering Committee

T. Yamashita (NIMS, Japan)
K. Kadowaki (Univ. of Tsukuba, Japan)
M. Machida (JAEA, Japan)
M. Fukase (Hirosaki Univ. Japan)
T. Watanabe (Hirosaki Univ. Japan)
K. Ichijo (Hirosaki Univ., Japan)
H. Nakazawa (Hirosaki Univ., Japan)
Y. Ota (JAEA, Japan)

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Important dates

- Abstract Due: **February 15th, 2010**
- Hotel reservation Due: **March 15th, 2010**
- Notification of Acceptance: **February 28th, 2010**
- Conference: **April 29th-May 2nd, 2010**

Travel info

The Hirosaki University is located in the center of the Hirosaki city in Aomori prefecture, a northern part of Japan Honsyu island. The main route to Hirosaki is first, to reach Aomori airport. From Aomori airport to Hirosaki city can be made by bus (about 1 hour), which synchronizes with the arrival or the departure schedule of the airplane at Aomori airport. To get Aomori airport, there may be several ways from different places. Perhaps, the most common route is from Haneda airport by airplane. Since most of international flights arrive at Narita airport except some flights from Asian countries, you must travel to Haneda airport from Narita airport. There is a frequent shuttle bus service (Airport Limousine) between the two airports (it takes about 75 min). So, those who come to Narita airport from overseas have to change the airport to go to Aomori or vice versa. Of course, there are alternative options. Please visit the conference website for more detailed information.

Accommodation

A number of rooms are seized in hotels near the Hirosaki station, where is the final destination of the all participants. Please fill in the reservation form and send it back as early as possible. We will inform you your hotel information later. It is highly recommended to take action promptly because it is the most crowded season during the symposium.

Contact Address

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Conference Website

<http://ims.phys.tsukuba.ac.jp/~plasma2010>