



TECHNISCHE
UNIVERSITÄT
WIEN

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INSTITUT FÜR
ANGEWANDTE PHYSIK
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IAP-SEMINAR

EINLADUNG

Termin: **Dienstag, 6.3.2012 um 16:00 Uhr**
Ort: **Technische Universität Wien,
Institut für Angewandte Physik,
Seminarraum 134A, Turm B (gelbe Leitfarbe), 5. OG
1040 Wien, Wiedner Hauptstraße 8-10**

Vortragende: **Dr. Qurat Ul Ain**
TU Wien, IAP

Thema: **Characterization of Non-Equilibrium Atmospheric Pressure
Plasma Jets**

Kurzfassung

Low temperature atmospheric pressure plasmas are a comparatively new type of plasma with scientific, technological and economic impact in many scientific disciplines and various fields of application. They can be generated by a variety of techniques; one of them is the atmospheric pressure plasma jet (APPJ), which features a radio-frequency (RF) discharge between bare metallic electrodes. Usually APPJ is operated in the alpha mode at gap spacings in the range of 1 mm or even more. This seminar highlights research efforts of the two APPJs (APPJ2, APPJ3) with different sizes exploring gap sizes in the range of 1 mm down to 100 μm ; the electrode area of the device APPJ3 is half than the area of APPJ2, and both are sandwiched structures. The RF capacitive coupled discharges were fundamentally characterized in helium thereof by voltage-current measurements, macroscopic visualization and manipulation of the discharges and extensive spectroscopic measurements.

*Alle interessierten Kolleginnen und Kollegen sind zu diesem Seminar
(45 min mit anschließender gemeinsamer Diskussion) herzlich eingeladen.*

*W. Werner e.h.
(Seminar-Chairperson)*

*H. Störi e.h.
(LVA-Leiter)*