

## AUSHANG

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### Einladung zum IKET-Kolloquium

Zeit: Dienstag, 15. Dezember 2015, 15.00 Uhr

Ort: Bibliothek des IKET, Campus Nord, Bau 420, Raum 204

Referent: Dr. Avi Sharon, Nuclear Research Center, Negev, Israel

Titel: The physics behind high explosive RDD source term: from microseconds to minutes time scales

Zusammenfassung:

Radiological dispersal devices operated by high explosive charge involve various physical phenomena which take place in different time scales. Initial particles' aerosolization occurs 10's-100's microseconds after detonation while the final particles' size distribution is determined in a typical time scale of 10'-100's milliseconds. This is mainly, due to possible (later) agglomeration processes of the initial particles with ambient dirt which entrained into the detonation fireball. Following these processes the detonation cloud climb towards the "effective" height where it is in a thermal equilibrium with the ambient atmosphere for the first time. The whole process can take up to few minutes, depends the HE amount.

During our meeting, I will talk about all the mentioned above processes.

gez. T. Schulenberg

Alle auswärtigen Besucher des Kolloquiums werden gebeten, ihren gültigen Personalausweis oder Reisepass mitzubringen.