

## DESY Lecture Series in Memory of Professor Dr. Willibald Jentschke

**Professor Daniel Zajfman**  
The Weizmann Institute, Rehovot, Israel

**“Atomics and Molecular Physics with FEL:  
A New Opportunity for  
Laboratory Astrophysics.”**

**June 22, 2007  
15.00 h  
DESY Auditorium**



**Professor W. Jentschke**, the founding father of DESY, was appointed Professor of Physics at Hamburg University in 1955. In this position, his aim was to establish a first-rate facility of high energy physics in Germany, leading to the foundation of DESY in 1959.

Until the end of 1970 he was head of the DESY Directorate. From 1971 to 1975 he was Director General of CERN, the European Laboratory for Particle Physics. After his retirement he maintained an active interest in particle physics, and in DESY and CERN, until his death in 2002, shortly after his 90th birthday. His wisdom, his vision and his great personality in guiding DESY will always be remembered.

All what we know about the universe comes from the radiation emitted or absorbed by atoms and molecules, in neutral or ionic form, in stars or in the interstellar medium. A great part of the radiation spectrum is in a wavelength range for which very few experiments have been carried out, especially for ionic species. The availability of FEL radiation, producing intense, and well defined pulses of radiation in the few nm range offers a new window of opportunity to study ionic atomic and molecular processes which are relevant to the stellar and interstellar medium. In his lecture, Professor Zajfman will describe few of the key questions, some experimental results, and some future work that can be carried out with the FLASH facility.



Prof. Daniel Zajfman  
(Photo by Weizmann Institute)

**Further Information:**  
[http://zms.desy.de/news/lecture\\_series/jentschke\\_lectures/index\\_eng.html](http://zms.desy.de/news/lecture_series/jentschke_lectures/index_eng.html)  
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