

## Röntgen Laser for Research

The international big research arrangement European XFEL in which eleven European countries participate, has begun with the commissioning of its 3.4 Km long underground Röntgen lasers. About 350 guests celebrated the completion of the laser in the new research institute in Schenefeld, Schleswig Holstein.

In a symbolic action, the representatives of eleven partner countries, assembled an approximately 2m long steel tube as one of the last remaining parts of the Röntgen lasers in the underground tunnel of the experimentation hall. However, the commissioning of the plant, step by step will take several months to complete after which the scientists will be able to conduct experiments for the first time in the summer of

2017. Around 60% of the total cost of 1.22 billion Euro is borne by Germany while Russia with 27% is the second biggest contributor.

The Röntgen laser will generate upto 27000 extremely short and bright luminous Röntgen light flashes per second and render possible the new glimpse in the structure and quick finish in nanocosmos. The applications stretch right from the structural biology, chemistry, physics, material science, upto environment and energy research or of the finding out of conditions as they appear in the interior of planets.

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