

## **First light and first image**

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In this seminar I will talk about the performance of our femtosecond laser system and near scanning optical microscopy (NSOM). A pulse width of 40 fs at power of 6 W has been reached. NSOM displays the first piece of evidence of the plasmonic enhancement of joint Ag nanoparticles. I would also present our recent progress in the growth of large size Ag nanowires, Pd nanoparticle, nanoplates and nanowires as well as doped TiO<sub>2</sub> nanowires for water treatment.