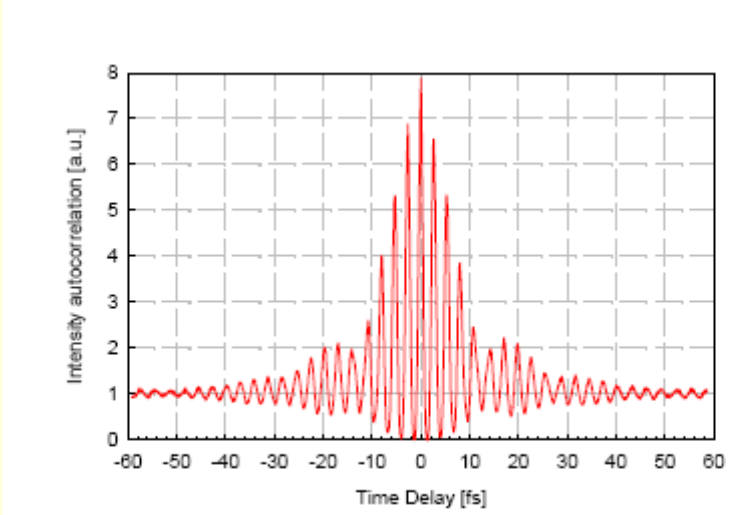


Fenomene fizice

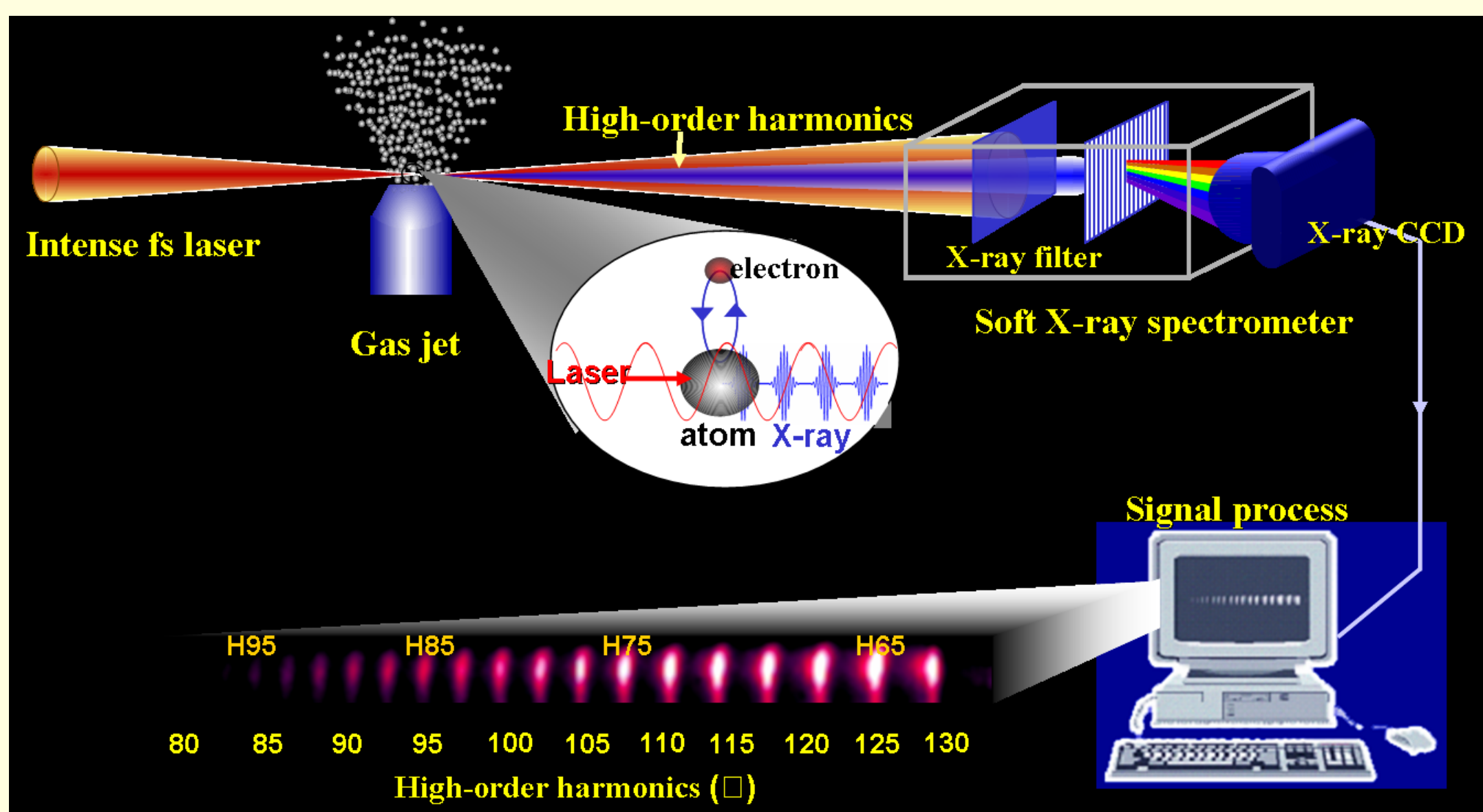
Echipamente

Un puls laser de 20 fs emis la 800 nm (perioada 2.6 fs) contine doar cateva oscilatii ale campului electromagnet



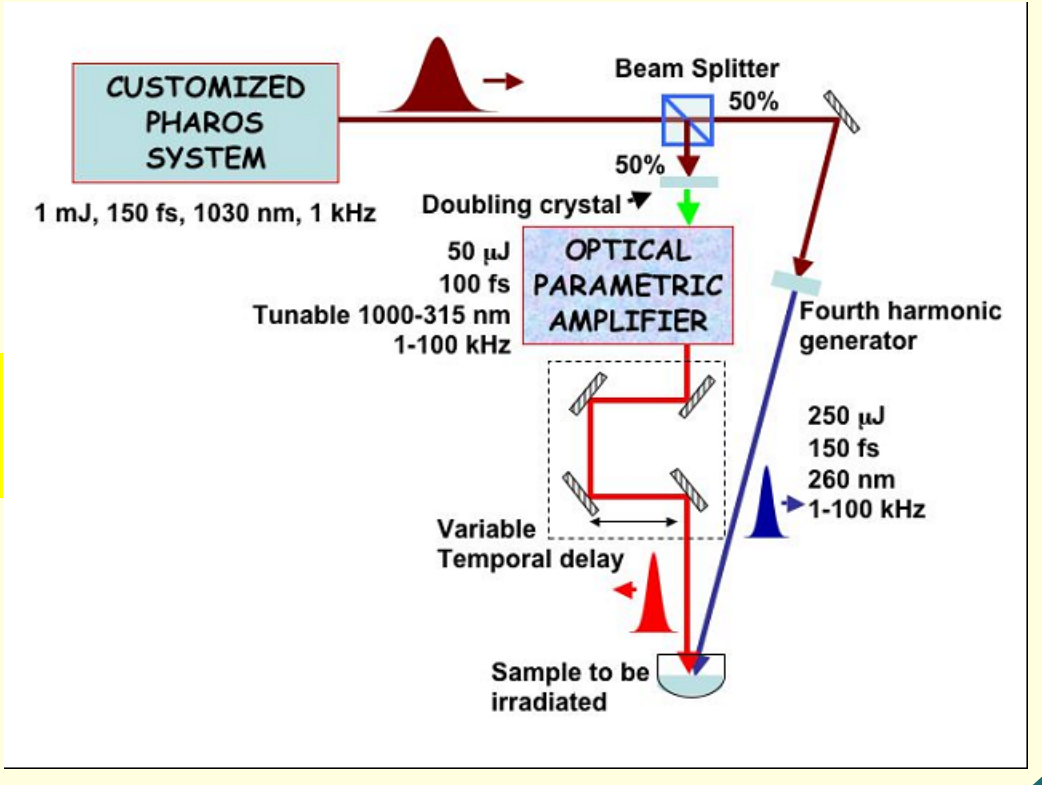
1 fs = 0.000000000000001 s  
= timpul in care lumina parcurge 0.3 microni

**Generare de pulsuri de attosecunde in domeniul XUV**

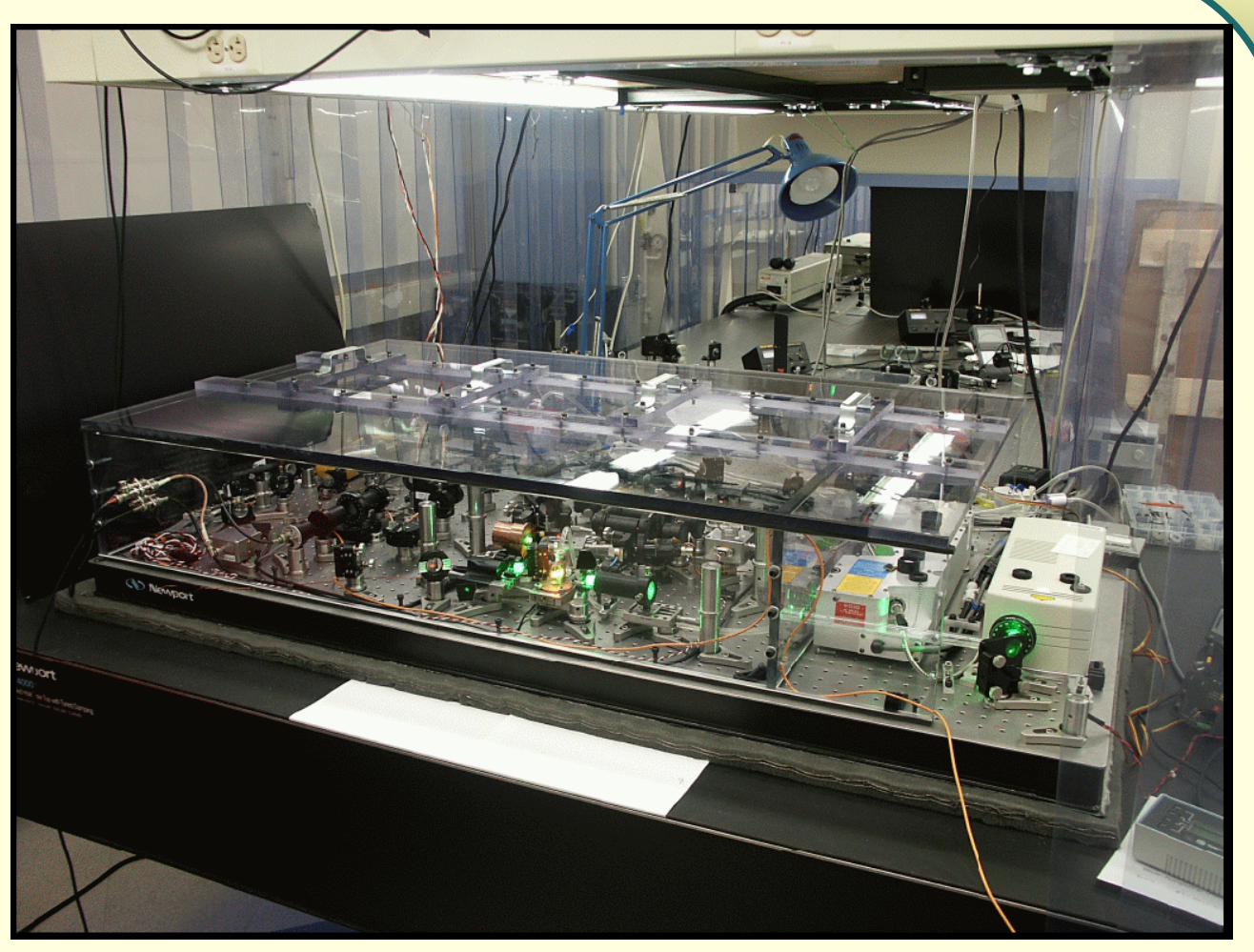


ATLAS project FP-7

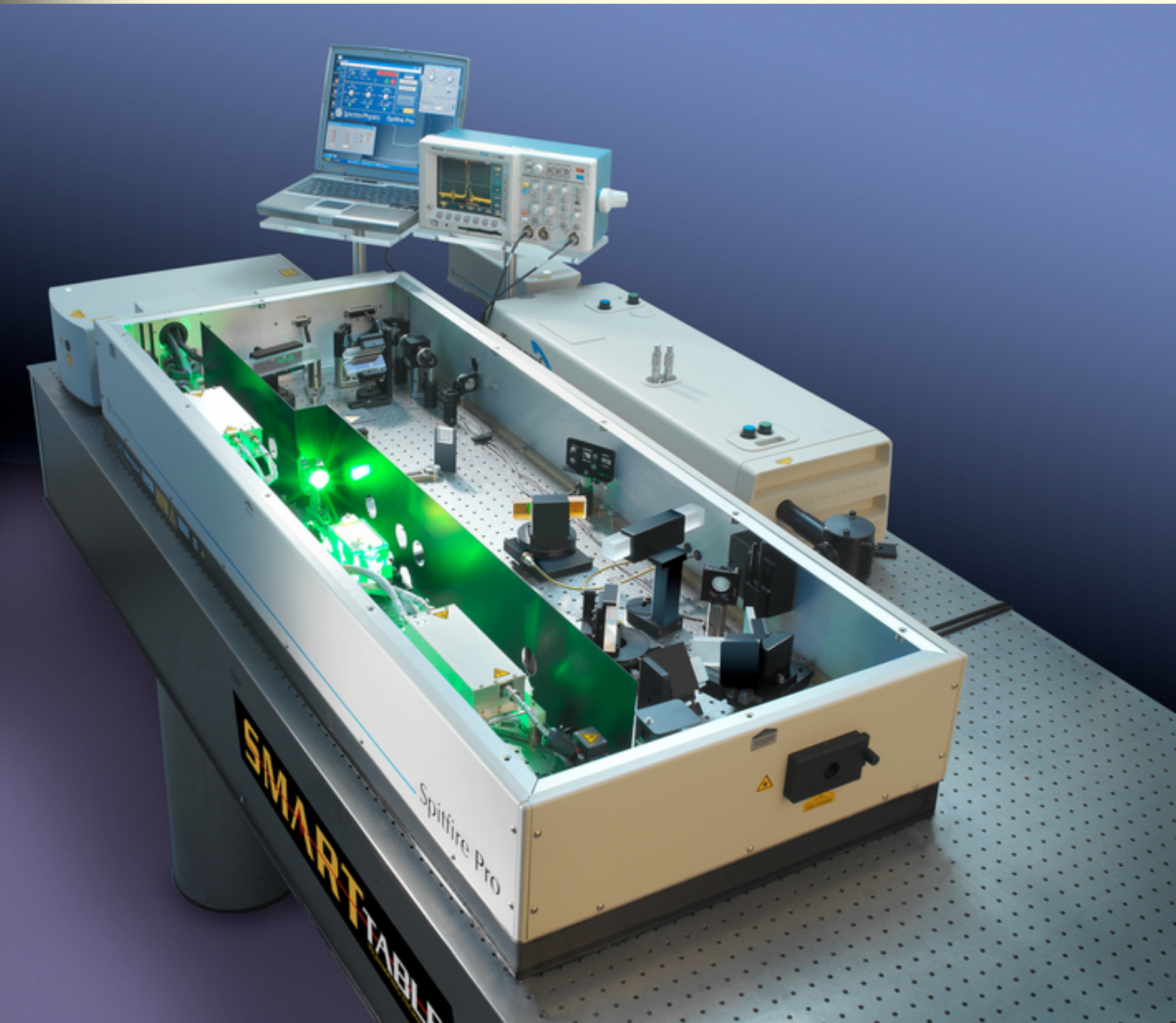
Layout of pump/probe experiments for two colors time-resolved photo-induced cross link of DNA/proteins.



Un laser Ti:Sa facut "in casa" acum 4-5 ani ...

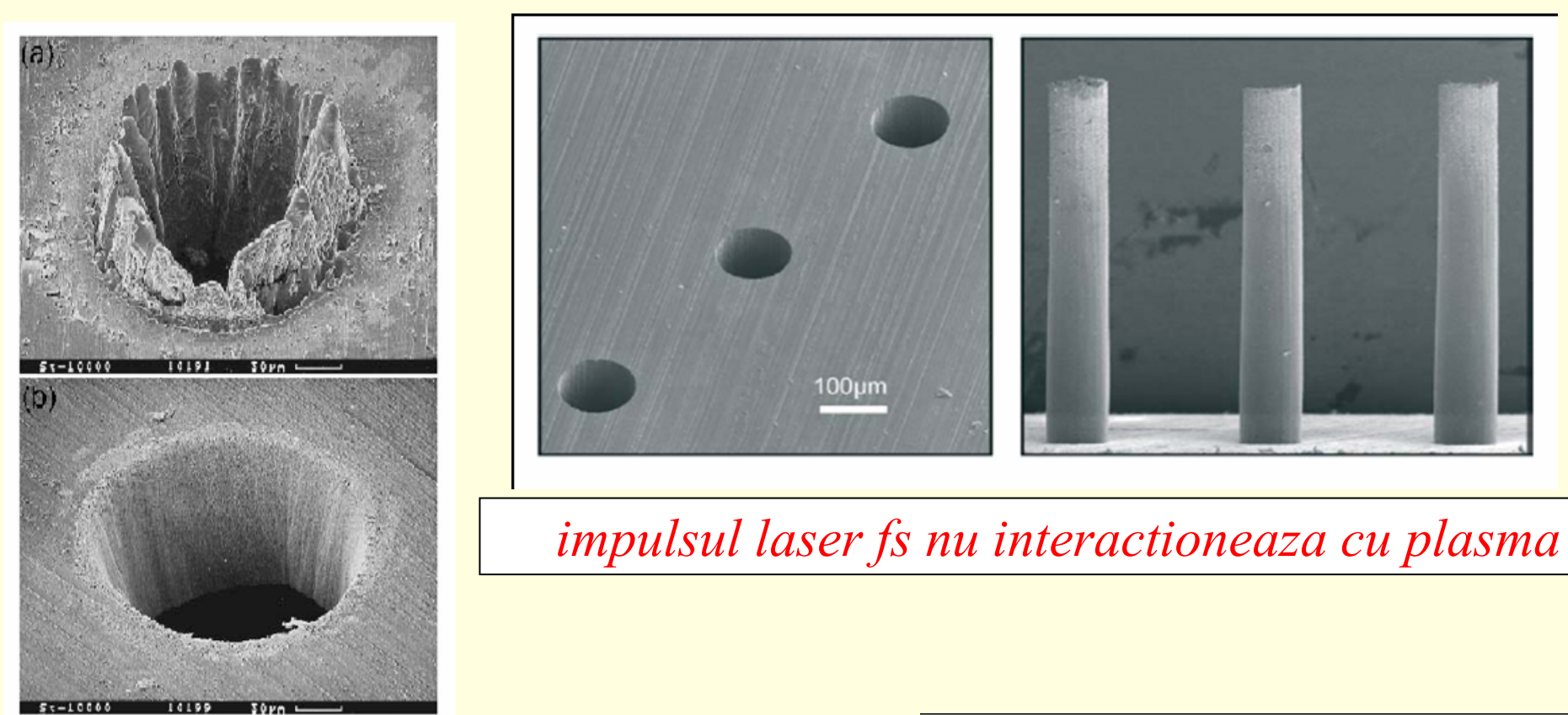


... si ce se face azi: mai compact, user friendly



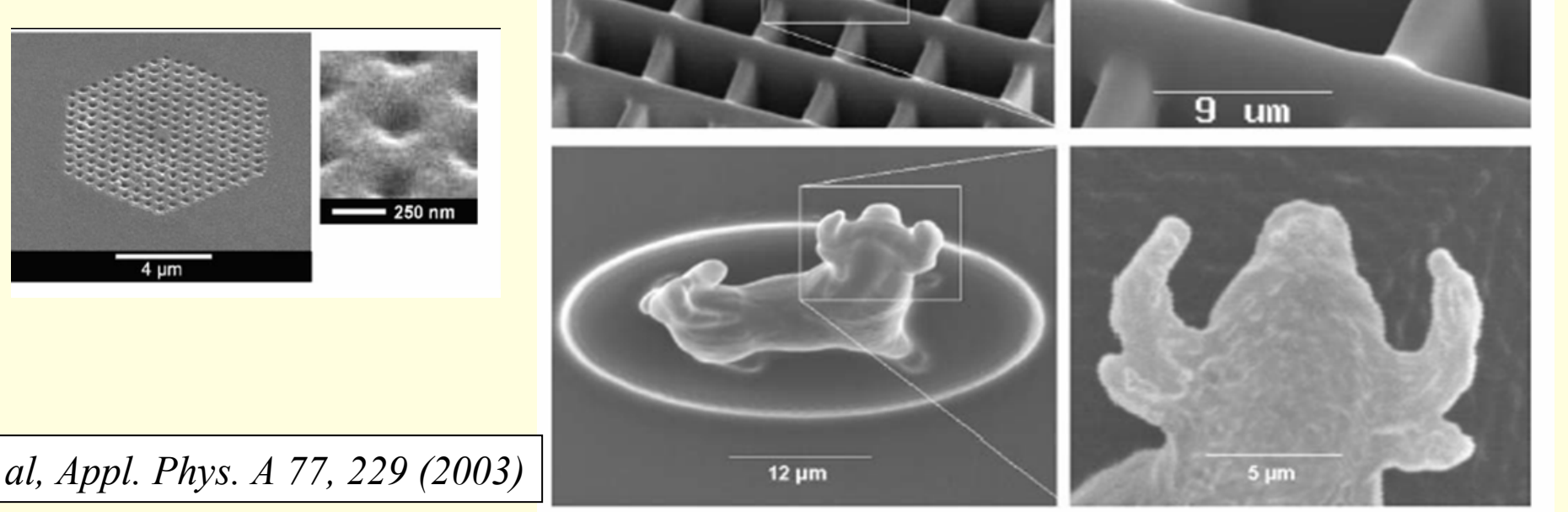

### Aplicatii Practice / Potentiali Utilizatori

Procesarea materialelor



*impulsul laser fs nu interactioneaza cu plasma produsa*

Creare de nanostructuri cu laserul Ti:Sa



Korte et al, Appl. Phys. A 77, 229 (2003)

Colaborari externe

ATLAS Teams



SME Sigulis AB, Lund

SME Vilnius

Nijmegen

SME Diagenode Liege

Strasbourg

Cluj-Napoca INCDTIM

Napoli-2, Universita Federico II

Napoli-1, Seconda Universita