

MAE-527 PHYSICS OF GASES:
SPECIAL LECTURE BY PROF.M.SCULLY FOR GRADUATE STUDENTS

9:00 am – 9:50 am M. Scully; A new approach to molecules using clues
from Niels Bohr & elementary particles

Workshop on XUV LWI

Friday, Nov. 19, 2010

EQUAD Room D-321

9:50 am – 10:35 am Scully et. al: Theory of XUV LWI: Part I
10:35am – 10:50 am Coffee
10:50 am – 11:20 am Szymon Suckewer: Approach to LWI experiments, identification of the spectra
11:20 am – 11:50 am Anatoli Svidzinsky: Theory of XUV LWI: Part II
11:50 am – 12:10 Pm Hui Xia; HeI absorption experiments, Preparation vacuum experiment
12:10 pm – 2:00 pm Lunch
2:00 pm – 2:15 pm Jim Mitrani & Chao Lu: B³⁺ and C⁴⁺ line identification
2:15 pm – 3:00 pm Phil Sprangle; Remarks about LWI
3:00 pm – 3:20 pm Yushan Luo & Yoav Avitzour: Level Population for XUV
and X-ray LWI and Comparison with Experiment
3:20 pm – 4:00 pm Discussions

Workshop on XUV LWI

Saturday, Nov. 20, 2010

EQUAD Room D-321

9:00 am – 9:30 am Scully et. al. Introduction to Remote Atmospheric
Lasing (SOS) in O₂ and N₂
9:30 am – 9:55 am Phil Sprangle; Theory of Laser in N₂
9:55 am – 10:15AM Dan Gordon: Experiment on Laser in N₂
10:15 am – 10:30 am Coffee
10:30 am – 11:00 am Dick Miles; O₂ Atmospheric Laser
11:00 am – 11:25 am Dimitri (TX) et. al.: High Power O₂ Atmospheric laser
11:25 am – 12:00 noon Discussion
12:00 noon Adjourn