

**PWF Pakistan: Advancing Optics and Photonics Education for Women in
Khyber Pakhtunkhwa: Women University Swabi**

Contribution ID : 4

Type : **not specified**

Lecture 1: Maser Principle

Tuesday, 14 April 2026 09:00 (1:30)

Content

Population Inversion; Threshold Condition; The Laser Idea; Introduction to Lasers; Properties of Laser Light; Basic Components; Pumping Schemes; Gain coefficient; Saturation

Summary

Presenter(s) : DR. IMRANA ASHRAF (ICTP/Quaid-i-Azam University)

Session Classification : DAY 2 - Fundamentals of Lasers - Morning Session