

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

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## **Lecture 4: Density Matrix Formalism**

*Tuesday, 31 March 2026 09:00 (1:30)*

### **Content**

Pure vs mixed states; Ensemble description; Decoherence concepts

### **Summary**

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

**Session Classification :** DAY 2 - Quantum Statistical Description - Morning Session