**Experimental Safety & Risk Assessment**

* Laser Safety:

All personnel must wear laser safety goggles rated for the operating wavelength. Only trained operators may align or adjust the laser. Use beam enclosures and interlocks to prevent accidental exposure.

* Vacuum/Rotating Vessel Hazards:

Ensure the vessel is properly rated for vacuum. All bolts and seals must be checked before spin-up. Enclose the entire rig in a shatter-resistant transparent shield (e.g., polycarbonate). Never operate at high RPM without remote start capability and emergency stop.

* Electrical and Power Risks:

All power supplies for lasers and motors must be fused and earthed. Use low-voltage control circuits where possible. Have a kill switch accessible outside the shielded area.

* PPE (Personal Protective Equipment):

Lab coat, gloves, and eye protection mandatory at all times.

Only approved personnel may operate the apparatus.