

# Performance of the Prototype Gas Recirculation System with built-in RGA for INO RPC system

*Friday, 12 February 2010 11:30 (20 minutes)*

An open loop gas recovery and recirculation system has been developed for the INO RPC system. The gas mixture coming from RPC exhaust is first desiccated by passing through molecular sieve ( $3\text{\AA} + 4\text{\AA}$ ). Subsequent scrubbing over basic active alumina removes toxic and acidic contaminants. The Isobutane and Freon are then separated by diffusion and liquefied by fractional condensation by cooling upto  $-26\text{ }^{\circ}\text{C}$ . A residual Gas Analyser (RGA) is being used in the loop to study the performance of the recirculation system. The results of the RGA analysis will be discussed.

**Primary author:** Mr KALMANI, Suresh (TIFR, Mumbai)

**Presenter:** Mr KALMANI, Suresh (TIFR, Mumbai)

**Session Classification:** Gas systems and ageing (II) and digital systems