Contribution ID: **237** Type: **Oral presention (by invitation only)**

Cooling & ventilation for RF systems, surface and klystron galleries

Tuesday, June 6, 2023 2:24 PM (18 minutes)

The FCC RF areas will be a major challenge from a cooling and ventilation point of view, as these points contain the highest concentration of thermal loads in the entire FCC complex. The total thermal load will depend primarily on the efficiency of the klystrons (currently being upgraded) and of the cryogenic systems. The location of the cryogenic systems will also determine the number and configuration of the cooling circuits. In addition, depending on the water circuit overall heat transfer coefficient, part of the heat load will be taken by the ventilation system. This presentation addresses these and other issues and serves as an in-depth look at the cooling and ventilation systems present at the RF points.

Primary author: MARTIN MELERO, Inigo (CERN)

Presenter: MARTIN MELERO, Inigo (CERN)

Session Classification: Technical Infrastructures

Track Classification: Technical Infrastructures