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**FCC-ee vacuum studies :**

**Possible collaboration topics with LPSC**

* static vacuum calculations with Molflow, PSPICE or SYNRAD of beamlines to be defined by CERN (training on SYNRAD and Molflow required)
* multipactor characterization at LPSC test bench (energy and current of MP electrons, RF power, vacuum pressure, temperature) for :
  + frequency range :
    - 180 MHz (travelling wave) up to 1 GHz (standing wave)
    - investigation for possible measurement > 1 GHz
  + different types of samples (deposited on coaxial) to be tested :
    - amorphous carbon, hydrophobic silicon, …
    - NEG : fresh (after vacuum improvement of test bench < 10-10 mbar) or saturated
  + additional measurement of impedance under investigation