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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