

MOLLER Tasks List

Subsystem	Task	Description	Comments	"Owner" (if more than one, please designate a primary contact)
Target/ Simulation	O-ring radiation load	Determine neutron and EM flux, and neutron dose at clamshell O-ring	Rakitha (LaTech) working on it. Expect results in one month Rank 1	Rakitha
Simulation/ General	Radiation impact	Irradiation from moves in and out of the beamline and during storage	Need to develop working FLUKA simulation and benchmark with remoll simulation. Simulation development on going, will take couple of months for first results. Rank 4	Rakitha
Simulation/ General	Radiation impact	Optimize shielding for MOLLER apparatus	LaTech working on target region and SBU (Cameron) working on downstream shielding. Detector shielding has some dependence on this item Expect results in one month Rank 2	Rakitha
Spectrometer /Simulation	Material Irradiation/Activation	Quantify radiation load and activation of primary components	Rakitha (LaTech) working on it, Juliette will tabulate materials, components and regions to be evaluated. Depends on complete FLUKA simulation to get this results. Simulation development on going, will take couple of months for first results.	Juliette, Rakitha

Subsystem	Task	Description	Comments	"Owner" (if more than one, please designate a primary contact)
			Rank 5	
Spectrometer /Simulation	Radiation load on hybrid toroid nose	More careful evaluation of local radiation load to determine survival of epoxy	Rakitha (LaTech) working on it. Feedback from Juliette and MIT engineers on epoxy specification. Analysis on going and expect results in one month. Rank 3	<u>Juliette</u> ,Rakitha

Please fill out the table above (following the example) for any task where you are the "primary" owner.