

Workshop for Applied Nuclear Data Activities (WANDA 2022)

[FINAL]

Thursday, 3 March 2022

Session Five: Stopping Powers, Energy Deposition and Dose (07:30 - 11:30)

-Conveners: Patrick Griffin (SNL); Michael Kruse (LLNL); Lee Bernstein (LBNL/UC Berkeley); Thomas Turflinger (Aero)

time	[id] title	presenter
07:30	[117] Welcome	
07:35	[83] Importance of "Stopping Power" in Assessing Material Damage	GRIFFIN (SNL), Patrick
07:55	[84] Electronic stopping power of ions in matter: current status of the experimental data, and the theoretical and numerical descriptions	MONTANARI (UBA), Claudia
08:15	[85] Heavy ion stopping power data needs for fission product mass yield measurements	HECHT (UNM), Adam
08:30	[86] 4He Stopping Cross Sections:(α ,n) Yields for Nuclear Applications	CROFT (LU), Stephen Dr FAVALLI, Andrea
08:45	[87] Measurements of ion-electron energy-transfer cross section in High Energy Density Plasmas	ADRIAN (MIT), Patrick
09:00	[88] Data Needs for Particle Therapy	KEPPEL (JLAB), Cynthia
09:15	Break	
09:30	[89] LET of Recoil Ions in Space Flight Electronics	OSHERHOFF (NASA), Jason
09:50	[90] The Berkeley Accelerator Space Effects (BASE) Facility	JOHNSON (LBNL), Michael
10:10	[91] Impact of Proton-Induced Fission Fragments on SEE: Community Need for Nuclear Data	TURFLINGER (AERO), Tom
10:30	[92] Stopping Power in ion beam therapy and biology: Bragg additivity, collective effects, and wakes	OBCEMEA (NCI), Ceferino
10:50	[93] Discussion	