IFMIF relevant materials not yet included in the FENDL-3/SLIB general purpose neutron data library

U. Fischer, FZK March 19, 2009

Element	Isotopes	Use	Prority	Remark
Ar	Ar-36, -38, -40.	Filler gas	High	Already in To-be-
				added-MAT table
Ag	Ag-107, -109	Solder agent	Low	Already in To-be-
				added-MAT table
Pt	Pt-190192, -194, -195,	Sensor	Medium	
	-196, -198			
Er	Er-162, -164, -166, -167,	Functional	High	Already in To-be-
	-168, -170	material for		added-MAT table
		irradiation in		
		Medium Flux		
		Test Module		
Sn	Sn-112, -114, -115, -116,	Solder agent	Low	Natural element
	-117, -118, -119120, -			included in
	122, -124			FENDL-3/SLIB

IFMIF relevant evaluations included in FENDL-3/SLIB general purpose neutron data library that need to be extended to $150\ or\ 200\ MeV$

	Prority	Remark	
H-1	High	Shows up in many important compounds in IFMIF	
H-3	Low		
He-3	Low		
He-4	High Main coolant in IFMI		
Li-6, -7	High	Functional material for irradiation in MFTM	
Be-9	High	Functional material for irradiation in MFTM	
B-10, B-11	High	Absorber in steel/concrete	
F-19	Low		
S-32, -33, -34, -36	Low		
C1-35, -37	Low		
K-39, -40, -41	High	Shows up in liquid metal filler NaK in HFTM	
Fe-58	Medium	Low natural abundance	
Co-59	Low		
Ni -58, -60	High	Major nuclides of Ni	
Sn	Low	Only elemental evaluation included in FENDL-3/SLIB	