

Japanese High Priority Request List (Revised Version in May, 2000)

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Request ID	Reaction	Quantity	Energy Range	Accuracy	Purpose	Priority/Deadline	Ref.	Requester
4.A.18	Si(n,p)(n.α)	Cross Sections	9-13 MeV	10%	FUSION REACTORS (shielding)	2		N. Yamano ^{*3} (SAF)
4.D.3	Xe-131(n.γ)	Cross Sections	4-500 keV	20%	FISSION REACTORS (burn-up)	2		H. Matsunobu ^{*6} (Data Eng. Co.)
4.D.5-6	Cs-135(n.γ)	Cross Sections	0.1-500 keV	10%	FISSION REACTORS (burn-up)	1		H. Matsunobu ^{*6} (Data Eng. Co.)
			10 meV - 100 keV	10%	(Res. param. Determination)	1		
4.D.11	Sm-151(n.γ)	Cross Sections	0.1-500 keV	10%	FISSION REACTORS (burn-up)	2		H. Matsunobu ^{*6} (Data Eng. Co.)
4.F.2	Am-243(n.f)	Cross Sections	10 - 20 MeV	20%	TRANSMUTATION	1		T. Sasa ^{*1} , T. Takizuka ^{*2} (JAERI)
4.F.3	Np-237(n. f)	n Spectra	- 10 MeV	10%	TRANSMUTATION	1	1.2)	T. Sasa ^{*1} , T. Takizuka ^{*2} (JAERI)
			10 - 20 MeV	30%				
4.F.4	Pu-238(n. f)	n Spectra	- 10 MeV	10%	TRANSMUTATION	1		T. Sasa ^{*1} , T. Takizuka ^{*2} (JAERI)
			10 - 20 MeV	30%				
4.F.5	Am-241(n. f)	n Spectra	- 10 MeV	10%	TRANSMUTATION	1	1)	T. Sasa ^{*1} , T. Takizuka ^{*2} (JAERI)
			10 - 20 MeV	30%				
4.F.6	Am-243(n. f)	n Spectra	- 10 MeV	10%	TRANSMUTATION	1	1)	T. Sasa ^{*1} , T. Takizuka ^{*2} (JAERI)
			10 - 20 MeV	30%				

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4.F.7	Cm-244(n, f)	n Spectra	- 10 MeV 10 - 20 MeV	10% 30%	TRANSMUTATION	1		T. Sasa ^{*1} , T. Takizuka ^{*2} (JAERI)
4.F.10	Pu-238(n, γ)	Cross Sections	10 - 20 MeV	20%	TRANSMUTATION	1		T. Sasa ^{*1} , T. Takizuka ^{*2} (JAERI)
4.F.20	Np-237(n, n')	Cross Sections	- 10 MeV 10 - 20 MeV	20% 30%	TRANSMUTATION	1		T. Sasa ^{*1} , T. Takizuka ^{*2} (JAERI)
4.F.21	Pu-238(n, n')	Cross Sections	- 10 MeV 10 - 20 MeV	20% 30%	TRANSMUTATION	1		T. Sasa ^{*1} , T. Takizuka ^{*2} (JAERI)
4.F.23	Am-241(n, n')	Cross Sections	- 10 MeV 10 - 20 MeV	20% 30%	TRANSMUTATION	1		T. Sasa ^{*1} , T. Takizuka ^{*2} (JAERI)
4.F.27	Pu-238(n, 2n)	Cross Sections	threshold -20 MeV	20%	TRANSMUTATION	1		T. Sasa ^{*1} , T. Takizuka ^{*2} (JAERI)
4.F.28	Am-241(n, 2n)	Cross Sections	threshold -20 MeV	20%	TRANSMUTATION	1		T. Sasa ^{*1} , T. Takizuka ^{*2} (JAERI)
4.F.29	Am-243(n, 2n)	Cross Sections	threshold -20 MeV	20%	TRANSMUTATION	1		T. Sasa ^{*1} , T. Takizuka ^{*2} (JAERI)
4.F.32	Np-237(n, f)	Delayed n Yields	Fast	10%	TRANSMUTATION	1		K. Tsujimoto ^{*7} , T. Sasa ^{*1} , T. Takizuka ^{*2} (JAERI)
4.F.33	Pu-238(n, f)	Delayed n Yields	Fast	10%	TRANSMUTATION	1		K. Tsujimoto ^{*7} , T. Sasa ^{*1} , T. Takizuka ^{*2} (JAERI)
4.F.35	Cm-244(n, f)	Delayed n Spectra	Fast	20%	TRANSMUTATION	1		K. Tsujimoto ^{*7} , T. Sasa ^{*1} , T. Takizuka ^{*2} (JAERI)
4.G.9	U-233(n,f)	Mass/charge yield to A=102-108		5%	FP Decay Heat	2		T. Yoshida ^{*12} (Musashi Institute of Technol.)
4.G.10	Cm-244(n, f)	FP Mass Yields	thermal - 20 MeV	20%	TRANSMUTATION	2		T. Sasa ^{*1} , T. Takizuka ^{*2} (JAERI)
4.H.20	Rb-89	Level scheme + beta-feeding rate, or gamma-energy	-	-	FP Decay Heat	3		T. Yoshida ^{*12} (Musashi Institute of Technol.)

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4.H.21	Y-94	Level scheme + beta-feeding rate, or gamma-energy	-	-	FP Decay Heat	2		T. Yoshida ^{*12} (Musashi Institute of Technol.)
4.H.22	Y-95	Level scheme + beta-feeding rate, or gamma-energy	-	-	FP Decay Heat	2		T. Yoshida ^{*12} (Musashi Institute of Technol.)
4.H.23	Mo-101	Level scheme + beta-feeding rate, or gamma-energy	-	-	FP Decay Heat	3		T. Yoshida ^{*12} (Musashi Institute of Technol.)
4.H.24	Mo-102	Level scheme + beta-feeding rate, or gamma-energy	-	-	FP Decay Heat	2		T. Yoshida ^{*12} (Musashi Institute of Technol.)
4.H.25	Tc-101	Level scheme + beta-feeding rate, or gamma-energy	-	-	FP Decay Heat	3		T. Yoshida ^{*12} (Musashi Institute of Technol.)
4.H.26	Tc-102	Level scheme + beta-feeding rate, or gamma-energy	-	-	FP Decay Heat	1		T. Yoshida ^{*12} (Musashi Institute of Technol.)
4.H.27	Tc-104	Level scheme + beta-feeding rate, or gamma-energy	-	-	FP Decay Heat	1		T. Yoshida ^{*12} (Musashi Institute of Technol.)
4.H.28	Tc-105	Level scheme + beta-feeding rate, or gamma-energy	-	-	FP Decay Heat	1		T. Yoshida ^{*12} (Musashi Institute of Technol.)

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4.H.29	Xe-137	Level scheme + beta-feeding rate, or gamma-energy	-	-	FP Decay Heat	2		T. Yoshida ^{*12} (Musashi Institute of Technol.)
4.H.30	Xe-138	Level scheme + beta-feeding rate, or gamma-energy	-	-	FP Decay Heat	2		T. Yoshida ^{*12} (Musashi Institute of Technol.)
4.H.31	Cs-138	Level scheme + beta-feeding rate, or gamma-energy	-	-	FP Decay Heat	2		T. Yoshida ^{*12} (Musashi Institute of Technol.)
4.H.32	Cs-139	Level scheme + beta-feeding rate, or gamma-energy	-	-	FP Decay Heat	2		T. Yoshida ^{*12} (Musashi Institute of Technol.)
4.H.33	Ba-141	Level scheme + beta-feeding rate, or gamma-energy	-	-	FP Decay Heat	2		T. Yoshida ^{*12} (Musashi Institute of Technol.)
4.H.34	La-143	Level scheme + beta-feeding rate, or gamma-energy	-	-	FP Decay Heat	3		T. Yoshida ^{*12} (Musashi Institute of Technol.)
7.A.1	Cu(p,xnyp),(n,xnyp)	DDX	20-3000 MeV	50%	TRANSMUTATION (Accelerator Structural Material) SPALLATION N-SOURCE (Beam Dump)	2 1		T. Sasa ^{*1} , T. Takizuka ^{*2} (JAERI) S. Meigo ^{*12} (JAERI)

Request ID	Reaction	Quantity	Energy Range	Accuracy	Purpose	Priority/Deadline	Ref.	Requester
7.A.2	Nb(p.xnyp)(n.xnyp)	DDX	20-1500 MeV	50%	TRANSMUTATION (Accelerator Structural Material)	2		T. Sasa ^{*1} , T. Takizuka ^{*2} (JAERI)
7.A.3	N(p.xnyp)(n.xnyp)	DDX	20-1500 MeV	50%	TRANSMUTATION (Fuel Material)	1		T. Sasa ^{*1} , T. Takizuka ^{*2} (JAERI)
7.A.4	Na(p.xnyp)(n.xnyp)	DDX	20-1500 MeV	50%	TRANSMUTATION (Coolant Material)	1		T. Sasa ^{*1} , T. Takizuka ^{*2} (JAERI)
7.A.5	Cl(p.xnyp)(n.xnyp)	DDX	20-1500 MeV	50%	TRANSMUTATION (Fuel Material)	2		T. Sasa ^{*1} , T. Takizuka ^{*2} (JAERI)
7.A.6	Zr(p.xnyp)(n.xnyp)	DDX	20-1500 MeV	50%	TRANSMUTATION (Target Material)	2		T. Sasa ^{*1} , T. Takizuka ^{*2} (JAERI)
7.A.7	Mo(p.xnyp)(n.xnyp)	DDX	20-1500 MeV	50%	TRANSMUTATION (Structural Material)	1		T. Sasa ^{*1} , T. Takizuka ^{*2} (JAERI)
7.A.8	Tc(p.xnyp)(n.xnyp)	DDX	20-1500 MeV	50%	TRANSMUTATION (Long-lived FP)	2		T. Sasa ^{*1} , T. Takizuka ^{*2} (JAERI)
7.A.9	I(p.xnyp)(n.xnyp)	DDX	20-1500 MeV	50%	TRANSMUTATION (Long-lived FP)	2		T. Sasa ^{*1} , T. Takizuka ^{*2} (JAERI)
7.A.10	Ta(p.xnyp)(n.xnyp)	DDX	20-3000 MeV	50%	NEUTRON SCATTERING (Target Material)	1		M. Teshigawara ^{*8} (JAERI)
7.A.11	W(p.xnyp)(n.xnyp)	DDX	20-1500 MeV	50%	TRANSMUTATION (Target Material)	1		T. Sasa ^{*1} , T. Takizuka ^{*2} (JAERI)
7.A.13	Hg(p.xnyp)(n.xnyp)	DDX	20-3000 MeV	50%	NEUTRON SCATTERING (Target Material)	1		M. Teshigawara ^{*8} (JAERI)

Request ID	Reaction	Quantity	Energy Range	Accuracy	Purpose	Priority/Deadline	Ref.	Requester
7.A.14	Pb(p,xnp)(n,xnyp)	DDX	20-1500 MeV	50%	TRANSMUTATION (Target Material)	1		T. Sasa ^{*1} , T. Takizuka ^{*2} (JAERI)
7.A.15	Bi(p,xnp)(n,xnyp)	DDX	20-1500 MeV	50%	TRANSMUTATION (Target Material)	1		T. Sasa ^{*1} , T. Takizuka ^{*2} (JAERI)
7.A.16	Np(p,xnp)(n,xnyp)	DDX	20-1500 MeV	50%	TRANSMUTATION (Target Material)	1		T. Sasa ^{*1} , T. Takizuka ^{*2} (JAERI)
7.A.17	Pu(p,xnp)(n,xnyp)	DDX	20-1500 MeV	50%	TRANSMUTATION (Target Material)	1		T. Sasa ^{*1} , T. Takizuka ^{*2} (JAERI)
7.A.18	Am(p,xnp)(n,xnyp)	DDX	20-1500 MeV	50%	TRANSMUTATION (Target Material)	1		T. Sasa ^{*1} , T. Takizuka ^{*2} (JAERI)
7.A.19	Cm(p,xnp)(n,xnyp)	DDX	20-1500 MeV	50%	TRANSMUTATION (Target Material)	2		T. Sasa ^{*1} , T. Takizuka ^{*2} (JAERI)
7.A.20	Fe(p,xnp)	DDX	20-3000 MeV	50%	TRANSMUTATION (Beam Window Material: HT-9) SPALLATION N-SOURCE (Beam Dump)	1		T. Sasa ^{*1} , T. Takizuka ^{*2} (JAERI) S. Meigo ^{*15} (JAERI)
7.A.21	Ni(p,xnp)	DDX	0.8-1.5 GeV	50%	TRANSMUTATION (Beam Window Material: HT-9)	1		T. Sasa ^{*1} , T. Takizuka ^{*2} (JAERI)
7.A.22	Mn(p,xnp)	DDX	0.8-1.5 GeV	50%	TRANSMUTATION (Beam Window Material: HT-9)	1		T. Sasa ^{*1} , T. Takizuka ^{*2} (JAERI)
7.A.23	Cu(p,xnp)	DDX	0.8-1.5 GeV	50%	TRANSMUTATION (Beam Window Material: HT-9)	1		T. Sasa ^{*1} , T. Takizuka ^{*2} (JAERI)
7.A.24	Mo(p,xnp)	DDX	0.8-1.5 GeV	50%	TRANSMUTATION (Beam Window Material: HT-9)	1		T. Sasa ^{*1} , T. Takizuka ^{*2} (JAERI)

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7.A.25	Si(p,xnyp)	DDX	0.8-1.5 GeV	50%	TRANSMUTATION (Beam Window Material: ceramics)	2		T. Sasa ^{*1} , T. Takizuka ^{*2} (JAERI)
7.A.26	O(p,xnyp)	DDX	0.8-1.5 GeV	50%	TRANSMUTATION (Beam Window Material: ceramics)	2		T. Sasa ^{*1} , T. Takizuka ^{*2} (JAERI)
7.A.27	Ti(p,xnyp)	DDX	0.8-3.0 GeV	50%	TRANSMUTATION (Beam Window Material: ceramics)	2		T. Sasa ^{*1} , T. Takizuka ^{*2} , M. Teshigawara ^{*8} (JAERI)
7.A.28	Al(p,xnyp)	DDX	0.8-1.5 GeV	50%	TRANSMUTATION (Beam Window Material: ceramics)	2		T. Sasa ^{*1} , T. Takizuka ^{*2} (JAERI)
7.A.29	Ba(p,xnyp)	DDX	0.8-1.5 GeV	50%	TRANSMUTATION (Beam Window Material: ceramics)	2		T. Sasa ^{*1} , T. Takizuka ^{*2} (JAERI)
7.A.30	Zn(p,xnyp)	DDX	0.8-1.5 GeV	50%	TRANSMUTATION (Beam Window Material: ceramics)	2		T. Sasa ^{*1} , T. Takizuka ^{*2} (JAERI)
7.A.31	C(p,xnyp)	DDX	0.8-1.5 GeV	50%	TRANSMUTATION (Beam Window Material: ceramics)	2		T. Sasa ^{*1} , T. Takizuka ^{*2} (JAERI)
New 1	D(p,xnyp),(n,xnyp)	DDX	20 MeV -3.0 GeV	50%	NEUTRON SCATTERING (Moderator Material)	1		M. Teshigawara ^{*8} (JAERI)
New 2	D(p,n)	Cross Section & DDX	20 – 3000 MeV	50%	SPALLATION N-SOURCE (Modelator)	2		S. Meigo ^{*13} (JAERI)
New 3	D(n,ela)	Cross Section & Angular Dist.	20 – 3000 MeV	20%	SPALLATION N-SOURCE (Modelator)	1		S. Meigo ^{*13} (JAERI)
New 4	Li-7(p,n),(p,xn)	Cross Section & Spectra	threshold – 3 MeV	10%	MEDICAL (Neutron Source for BNCT)	2		M. Sasaki ^{*11} (JNC)
New 5	Be-9(p,n),(p,xn)	Cross Section & Spectra	threshold – 3 MeV	10%	MEDICAL (Neutron Source for BNCT)	2		M. Sasaki ^{*11} (JNC)

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New 6	Be(p,xnp)(n,xnyp)	DDX	20 MeV – 3.0 GeV	50%	NEUTRON SCATTERING (Target Material) SPALLATION N-SOURCE (Reflector)	1		M. Teshigawara* ⁸ (JAERI) S. Meigo* ¹³ (JAERI)
New 7	Be(p,x) Activation	Cross Section	20 – 3000 MeV	30%	SPALLATION N-SOURCE (Reflector)	1		S. Meigo* ¹³ (JAERI)
New 8	C(p,x) ,(n,x) Activation	Cross Section	20 – 3000 MeV	30%	SPALLATION N-SOURCE (Beam Dump, Soil)	1		S. Meigo* ¹³ (JAERI)
New 9	C(p,xn)	DDX	20 – 3000 MeV	50%	SPALLATION N-SOURCE (Beam Dump)	2		S. Meigo* ¹³ (JAERI)
New 10	C(n,xn)	DDX	20 – 150 MeV	50%	SPALLATION N-SOURCE (Beam Dump)	2		S. Meigo* ¹³ (JAERI)
New 11	N(p,x) ,(n,x) Activation	Cross Section	20 – 3000 MeV	30%	SPALLATION N-SOURCE (Air)	1		S. Meigo* ¹³ (JAERI)
New 12	O(p,x) ,(n,x) Activation	Cross Section	20 – 3000 MeV	30%	SPALLATION N-SOURCE (Air & Cooling Water)	1		S. Meigo* ¹³ (JAERI)
New 13	Na(p,x) ,(n,x) Activation	Cross Section	20 – 3000 MeV	30%	SPALLATION N-SOURCE (Magnet & Beam Tube)	2		S. Meigo* ¹³ (JAERI)
New 14	Al(p,x) Activation	Cross Section	20 – 3000 MeV	30%	SPALLATION N-SOURCE (Beam Tube)	1		S. Meigo* ¹³ (JAERI)
New 15	Si(p,x) ,(n,x) Activation	Cross Section	20 – 3000 MeV	30%	SPALLATION N-SOURCE (Soil)	1		S. Meigo* ¹³ (JAERI)
New 16	Ca(p,x) ,(n,x) Activation	Cross Section	20 – 3000 MeV	30%	SPALLATION N-SOURCE (Magnet & Beam Tube)	2		S. Meigo* ¹³ (JAERI)

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New 17	V(p,x) Activation	Cross Section	800 – 3000 MeV	30%	SPALLATION N-SOURCE (Beam Window)	1		S. Meigo ^{*13} (JAERI)
New 18	V(p,z)	DDX	800 – 3000 MeV	50%	SPALLATION N-SOURCE (Beam Window)	1		S. Meigo ^{*13} (JAERI)
New 19	Cr(p,x) (n.s) Activation	Cross Section	20 – 3000 MeV	30%	SPALLATION N-SOURCE (Magnet & Beam Tube)	1		S. Meigo ^{*13} (JAERI)
New 20	Cr(p,z)	DDX	800 – 3000 MeV	50%	SPALLATION N-SOURCE (Beam Window)	1		S. Meigo ^{*13} (JAERI)
New 21	Fe(p,x) (n.s) Activation	Cross Section	20 – 3000 MeV	30%	SPALLATION N-SOURCE (Magnet, Beam Tube, Beam Dump)	1		S. Meigo ^{*13} (JAERI)
New 22	Fe(n,xn)	DDX	20 – 150 MeV	50%	SPALLATION N-SOURCE (Beam Dump)	1		S. Meigo ^{*13} (JAERI)
New 23	Fe(p,z)	DDX	800 – 3000 MeV	50%	SPALLATION N-SOURCE (Beam Window)	1		S. Meigo ^{*13} (JAERI)
New 24	Ni(p,x) (n.s) Activation	Cross Section	20 – 3000 MeV	30%	SPALLATION N-SOURCE (Magnet, Beam Tube, Reflector)	1		S. Meigo ^{*13} (JAERI)
New 25	Ni(p,z)	DDX	800 – 3000 MeV	50%	SPALLATION N-SOURCE (Beam Window)	1		S. Meigo ^{*13} (JAERI)
New 26	Ni(n,xn)	DDX	20 – 150 MeV	50%	SPALLATION N-SOURCE (Reflector)	1		S. Meigo ^{*13} (JAERI)

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New 27	Cu(p,x) Activation	Cross Section	20 – 3000 MeV	30%	SPALLATION N-SOURCE (Super Conduction Magnet, Beam Dump)	1		S. Meigo ^{*13} (JAERI)
New 28	Cu(n,x) Activation	Cross Section	20 – 150 MeV	30%	SPALLATION N-SOURCE (Beam Dump)	1		S. Meigo ^{*13} (JAERI)
New 29	Cu(p,z)	DDX	800 – 3000 MeV	50%	SPALLATION N-SOURCE (Beam Window)	1		S. Meigo ^{*13} (JAERI)
New 30	Nb(p,x) Activation	Cross Section	20 – 3000 MeV	30%	SPALLATION N-SOURCE (Super Conduction Magnet)	1		S. Meigo ^{*13} (JAERI)
New 31	Mo(p,x) Activation	Cross Section	800 – 3000 MeV	30%	SPALLATION N-SOURCE (Beam Window)	1		S. Meigo ^{*13} (JAERI)
New 32	Mo(p,z)	DDX	800 – 3000 MeV	50%	SPALLATION N-SOURCE (Beam Window)	1		S. Meigo ^{*13} (JAERI)
New 33	Ga(p,x) Activation	Cross Section	20 – 3000 MeV	30%	SPALLATION N-SOURCE (Coolant)	1		S. Meigo ^{*13} (JAERI)
New 34	Ta(p,x) Activation	Cross Section	20 – 3000 MeV	30%	SPALLATION N-SOURCE (Target Material)	1		S. Meigo ^{*13} (JAERI)
New 35	Ta(n,x) Activation	Cross Section	20 - 150 MeV	30%	SPALLATION N-SOURCE (Target Material)	1		S. Meigo ^{*13} (JAERI)
New 36	Ta(p,xn)	DDX	20 – 3000 MeV	50%	SPALLATION N-SOURCE (Target Material)	1		S. Meigo ^{*13} (JAERI)
New 37	Ta(n,xn)	DDX	20 - 150 MeV	50%	SPALLATION N-SOURCE (Target Material)	1		S. Meigo ^{*13} (JAERI)

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New 38	Ta(p.x γ)	Spectra	20 – 3000 MeV	50%	SPALLATION N-SOURCE (Target Material)	1		S. Meigo ^{*13} (JAERI)
New 39	Ta(n.x γ)	Spectra	20 - 150 MeV	50%	SPALLATION N-SOURCE (Target Material)	1		S. Meigo ^{*13} (JAERI)
New 40	W(p.x) Activation	Cross Section	20 – 3000 MeV	30%	SPALLATION N-SOURCE (Target Material, Reflector)	1		S. Meigo ^{*13} (JAERI)
New 41	W(n.x) Activation	Cross Section	20 - 150 MeV	30%	SPALLATION N-SOURCE (Target Material, Reflector)	1		S. Meigo ^{*13} (JAERI)
New 42	W(p.xn)	DDX	20 – 3000 MeV	50%	SPALLATION N-SOURCE (Target Material)	1		S. Meigo ^{*13} (JAERI)
New 43	W(n.xn)	DDX	20 - 150 MeV	50%	SPALLATION N-SOURCE (Target Material)	1		S. Meigo ^{*13} (JAERI)
New 44	W(p.z)	DDX	800 – 3000 MeV	50%	SPALLATION N-SOURCE (Beam Window)	1		S. Meigo ^{*13} (JAERI)
New 45	W(p.x γ)	Spectra	20 – 3000 MeV	50%	SPALLATION N-SOURCE (Target Material)	1		S. Meigo ^{*13} (JAERI)
New 46	W(n.x γ)	Spectra	20 - 150 MeV	50%	SPALLATION N-SOURCE (Target Material)	1		S. Meigo ^{*13} (JAERI)
New 47	Hg(p.non).(p.ela)	Cross section	0.1 – 3000 MeV	30%	SPALLATION N-SOURCE (Target Material)	1		S. Meigo ^{*13} (JAERI)
New 48	Hg(n.tot).(n.ela)	Cross Section	0.1 – 3000 MeV	30%	SPALLATION N-SOURCE (Target Material)	1		S. Meigo ^{*13} (JAERI)
New 49	Hg(p.x) Activation	Cross Section	20 – 3000 MeV	30%	SPALLATION N-SOURCE (Target Material)	1		S. Meigo ^{*13} (JAERI)

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New 50	Hg(n,x) Activation	Cross Section	0.1 - 150 MeV	30%	SPALLATION N-SOURCE (Target Material)	1		S. Meigo ^{*13} (JAERI)
New 51	Hg(p,xn)	DDX	20 - 3000 MeV	50%	SPALLATION N-SOURCE (Target Material)	1		S. Meigo ^{*13} (JAERI)
New 52	Hg(n,xn)	DDX	1 - 150 MeV	50%	SPALLATION N-SOURCE (Target Material)	1		S. Meigo ^{*13} (JAERI)
New 53	Hg(p,x γ)	Spectra	20 - 3000 MeV	50%	SPALLATION N-SOURCE (Target Material)	1		S. Meigo ^{*13} (JAERI)
New 54	Hg(n,x γ)	Spectra	1 - 150 MeV	50%	SPALLATION N-SOURCE (Target Material)	1		S. Meigo ^{*13} (JAERI)
New 55	Pb(p,x) Activation	Cross Section	20 - 3000 MeV	30%	SPALLATION N-SOURCE (Target Material)	1		S. Meigo ^{*13} (JAERI)
New 56	Pb(n,x) Activation	Cross Section	20 - 150 MeV	30%	SPALLATION N-SOURCE (Target Material)	1		S. Meigo ^{*13} (JAERI)
New 57	Pb(p,xn)	DDX	20 - 3000 MeV	50%	SPALLATION N-SOURCE (Target Material)	1		S. Meigo ^{*13} (JAERI)
New 58	Pb(n,xn)	DDX	20 - 150 MeV	50%	SPALLATION N-SOURCE (Target Material, Reflector)	1		S. Meigo ^{*13} (JAERI)
New 59	Pb(p,x γ)	Spectra	20 - 3000 MeV	50%	SPALLATION N-SOURCE (Target Material)	1		S. Meigo ^{*13} (JAERI)
New 60	Pb(n,x γ)	Spectra	20 - 150 MeV	50%	SPALLATION N-SOURCE (Target Material)	1		S. Meigo ^{*13} (JAERI)
New 61	Bi-209(n, γ 0) Po-210 Production	Cross Section	thermal -1 MeV 1 - 20 MeV	15% 20%	TRANSMUTATION (Coolant Material)	1		H. Takano ^{*10} (JAERI)

Request ID	Reaction	Quantity	Energy Range	Accuracy	Purpose	Priority/Deadline	Ref.	Requester
New 62	Bi(p, γ) Po-210 Production	Cross Section	6 – 20 MeV	20%	SPALLATION N-SOURCE (Target Material)	1		S. Meigo ^{*13} (JAERI)
New 63	Bi(p,x) Activation	Cross Section	20 – 3000 MeV	30%	SPALLATION N-SOURCE (Target Material)	1		S. Meigo ^{*13} (JAERI)
New 64	Bi(n,x) Activation	Cross Section	20 - 150 MeV	30%	SPALLATION N-SOURCE (Target Material)	1		S. Meigo ^{*13} (JAERI)
New 65	Bi(p,xn)	DDX	20 – 3000 MeV	50%	SPALLATION N-SOURCE (Target Material)	1		S. Meigo ^{*13} (JAERI)
New 66	Bi(n,xn)	DDX	20 - 150 MeV	50%	SPALLATION N-SOURCE (Target Material)	1		S. Meigo ^{*13} (JAERI)
New 67	Bi(p,x γ)	Spectra	20 – 3000 MeV	50%	SPALLATION N-SOURCE (Target Material)	1		S. Meigo ^{*13} (JAERI)
New 68	Bi(n,x γ)	Spectra	20 - 150 MeV	50%	SPALLATION N-SOURCE (Target Material)	1		S. Meigo ^{*13} (JAERI)
New 69	Th-232(n,f) U-233,235, 238(n,f) Pu-239,241(n,f) Am-241(n,f) Cm-242,245,249(n,f)	Tritium Yield	thermal - 20 MeV	10%	BURN-UP (Tritium Production)	1		K. Sasaki ^{*9} (ARTECH)
New 70	Np-237(n,f)	Cross Section	0.1-10 MeV	5%	FISSION REACTOR (Fast Neutron Measurement)	2		K. Sasaki ^{*9} (ARTECH)
New 71	Na-23(n,2n)Na-22	Cross Section	10-100 MeV	20%	SHIELDING	2		S. Ban ^{*14} (KEK)
New 72	Mg-24(n,x)Na-22	Cross Section	10-100 MeV	20%	SHIELDING	2		S. Ban ^{*14} (KEK)
New 73	Mg-25(n,x)Na-22	Cross Section	10-100 MeV	20%	SHIELDING	2		S. Ban ^{*14} (KEK)

Request ID	Reaction	Quantity	Energy Range	Accuracy	Purpose	Priority/Deadline	Ref.	Requester
New 74	Al-27(n,x)Na-22	Cross Section	10-100 MeV	20%	SHIELDING	?		S. Ban ^{*14} (KEK)

References

- 1) Planing to measure in JAERI(FCA)/ORNL joint program
- 2) Planing to measure at IPPE in ISTC program
- 3) Planing to measure at KRI in ISTC program

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