

1979-06-28

To: Distribution

From: O. Schwerer *O. Schwerer*

Subject: Exfor completeness check for 4 important dosimetry reactions

We compiled the evaluation of the dosimetry reactions  $^{24}\text{Mg}(n,p)$ ,  $^{64}\text{Zn}(n,p)$ ,  $^{63}\text{Cu}(n,2n)$ ,  $^{90}\text{Zr}(n,2n)$  by Tagesen et al. (VIEN-VOO 14). About 90% of the experimental works cited are available in Exfor.

The following works were found missing in EXFOR and should be compiled with high priority:

Area 1

Barrall	WASH-1127	(69)	$^{63}\text{Cu}$ n2n
Spangler	ANS 22 818	(75)	$^{64}\text{Zn}$ np, $^{90}\text{Zr}$ n2n
Salaita	74 Columbia 95 (rejected by evaluator)		$^{90}\text{Zr}$ n2n
Martin	PR 86 565 (probably out of date, rejected by evaluator)	(52)	$^{63}\text{Cu}$ n2n

Area 2 \*)

Bormann	NP/A 130 195	(69)	$^{63}\text{Cu}$ n2n, $^{64}\text{Zn}$ np
Jarjis	JP/G 4, 445	(78)	$^{63}\text{Cu}$ n2n
Mogharrab	AKE 19, 107	(72)	"
Partington	ANA 95, 257 (in CINDA only for $^{27}\text{Al}(n,p)$ )	(70)	"
Paulsen	66 Paris, 1, 217		$^{64}\text{Zn}$ np
Molla	NP/A 283 269	(77)	"

Area 3

Strohal	PL 10 104 (rejected by evaluator)	(64)	$^{24}\text{Mg}$ np
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\*) We note that 2 old works originally included in this list have been transmitted recently (Exfor 20890 (Guzzocrea), 20891 (Minetti)).

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