

## Update muX meeting 07/03

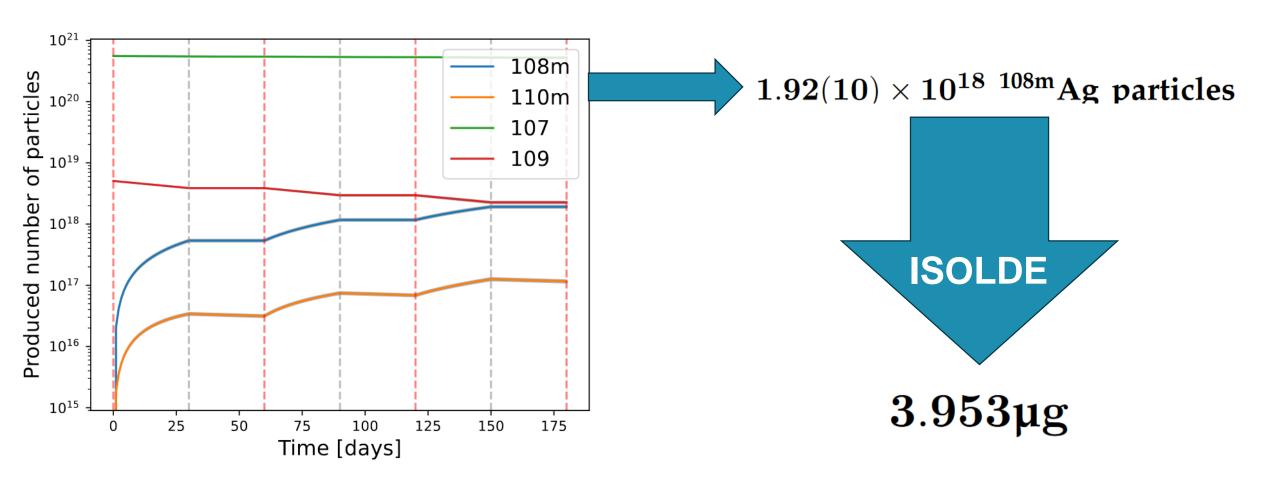
Marie Deseyn

# <sup>108m</sup>Ag production





### We have a plan to produce 108mAg!!!

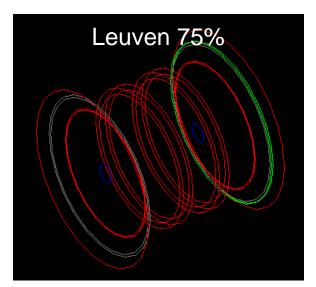


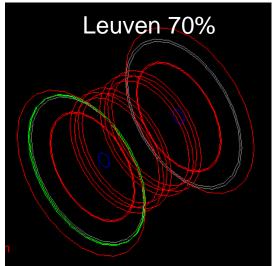
## We have a plan to produce 108mAg!!!

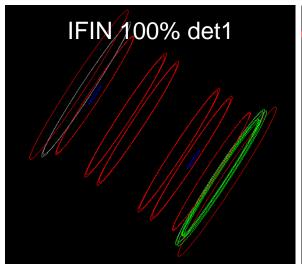
Starting mass	108m Ag particles produced after 3 irradiation cycles	<sup>108m</sup> Ag particles implanted on the collection foil (taking into account self-sputtering)	Mass of <sup>108m</sup> Ag implanted [μg]	Time to collect [h]	Purity on the collection foil
100mg	$1.91(9) \times 10^{18}$	$2.11(12) \times 10^{16}$	3.8(2)	24.2(7)	99.8959(15)%
125mg	$2.39(11) \times 10^{18}$	$2.54(12) \times 10^{16}$	4.6(3)	29.1(13)	99.8958(15)%
150mg	$2.88(14) \times 10^{18}$	$2.92(11) \times 10^{16}$	5.2(2)	33.4(13)	99.8962(15)%
175mg	$3.35(16) \times 10^{18}$	$3.25(13) \times 10^{16}$	5.8(3)	37.2(15)	99.8960(15)%
200mg	$3.84(18) \times 10^{18}$	$3.50(8) \times 10^{16}$	6.27(14)	40.0(9)	99.8961(15)%

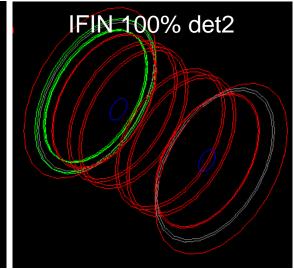
#### **GEANT4**

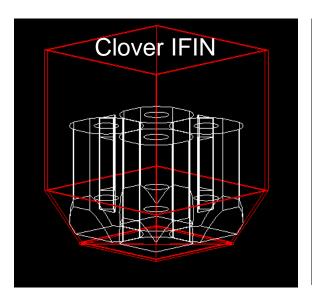


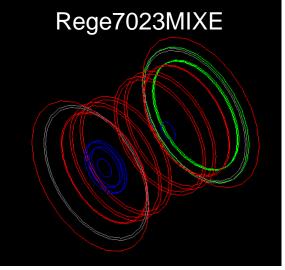


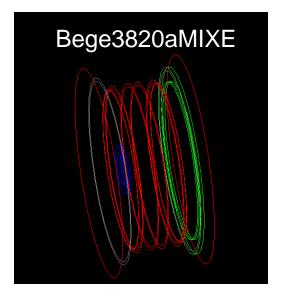














#### What is still missing

- 90% Rege coaxial TUM
- 34% Bege TUM
- 50% SEGe coaxial JINR
- GC5019 ("Rasputin") electrocooled JINR
- Miniball



