

# The GSI Future Project

**Nuclear  
Structure  
Physics**

**Physics  
with  
Anti-  
protons**

**Nuclear  
Matter  
Physics**

**Plasma  
Physics**

**Atomic  
Physics**

+ Applications

**Highest beam intensities:**  $2 \times 10^{13} \text{ s}^{-1}$  for protons,  $10^{12} \text{ s}^{-1}$  for uranium ions, =  $10^4$  gain in intensity of radioactive ion beams

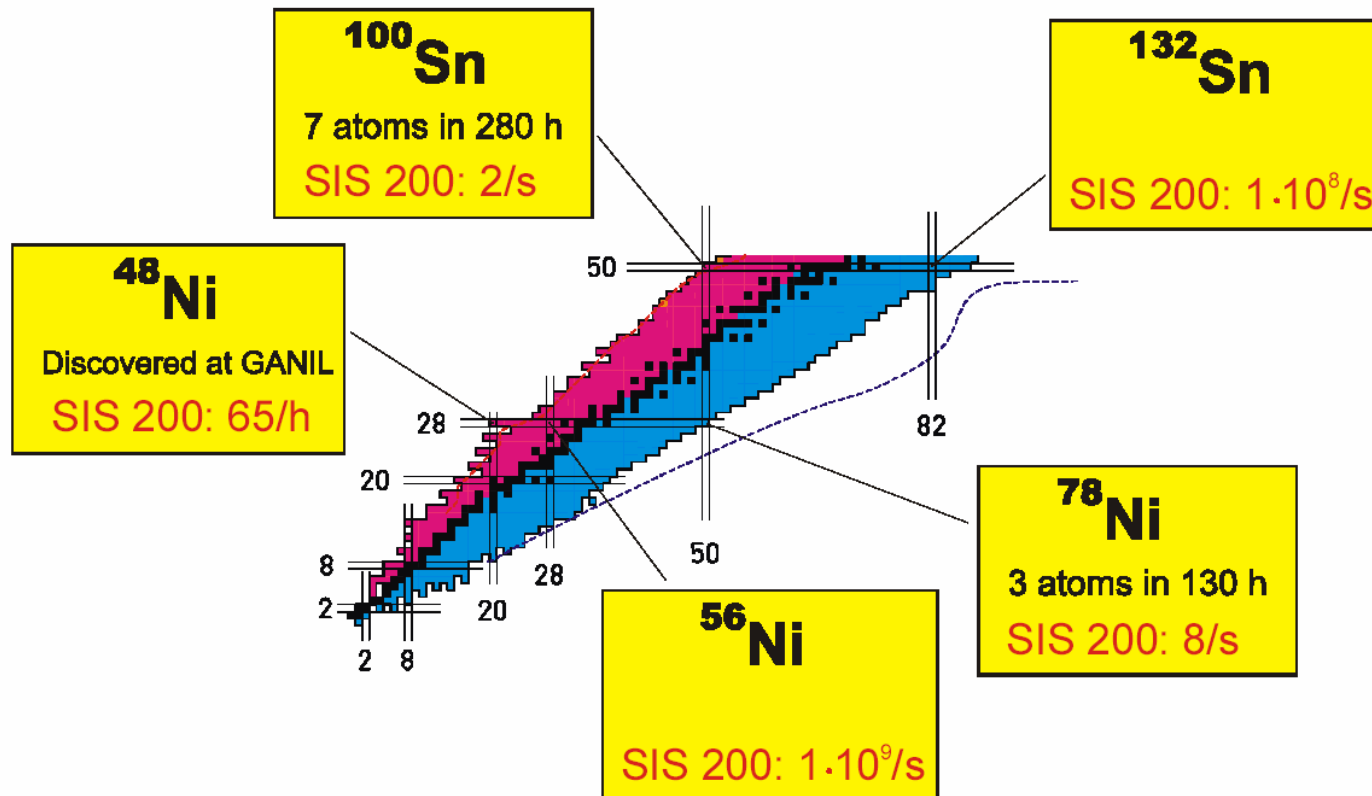
**Brilliant beam quality**

**Higher beam energies:** = 30 GeV/u, i.e. 15 times more than before

**Parallel operation**

**Funding of 675 MEuro granted** by German Minister of Education and Research

## Examples of production rates of exotic nuclei at the GSI Future Facility



**Note:** Intensities expected directly after a production target are compared to rates observed in previous experiments

