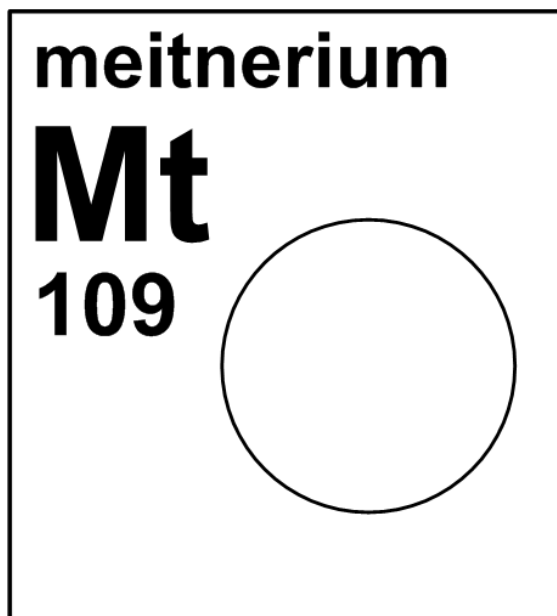


4.109 meitnerium



Stable isotope	Relative atomic mass	Mole fraction
(none)		

Half-life of radioactive isotope

Less than 1 hour

266 Mt	267 Mt	268 Mt	270 Mt	274 Mt	275 Mt	276 Mt	277 Mt	278 Mt
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Meitnerium does not occur naturally in the Earth's crust. Meitnerium was first synthesized by German scientists at the GSI Center for Heavy Ion Research in Darmstadt, Germany in 1984 using the nuclear reaction $^{209}\text{Bi} (^{58}\text{Fe}, n) ^{265}\text{Hs}$. The **element** is named for the physicist, Lise Meitner (Figure 4.109.1), who discovered the element protactinium [650, 652]. Meitnerium is used only for scientific research.

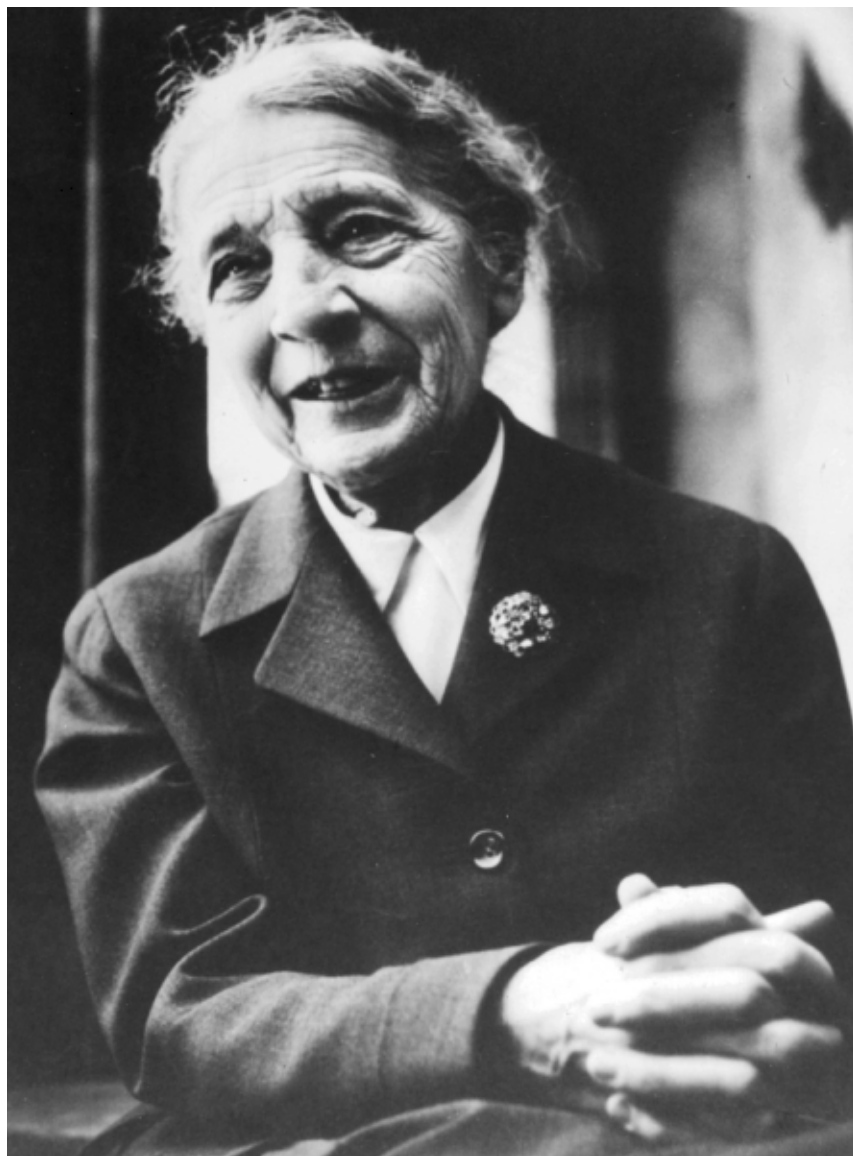


Fig. 4.109.1: Lise Meitner is the nuclear physicist, after whom meitnerium is named (used with permission of the American Institute of Physics' Emilio Segre Visual Archives).