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Recent Highlights From the Shores of the Island of Stability

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The hunt for heavy element reached so far proton number 118. In 2016, the IUPAC/IUPAP Joint Working Party validated the discovery of the elements with the proton number 113, 115, 117, and 118. Thus, these elements were named and received their place in the periodic table.

Besides the search for new elements, the studies of the basic properties of the heaviest elements are of interest for nuclear physics, atomic physics and chemistry. New and improved experimental techniques provided access to these properties. I will give an overview on the latest research highlights and a personal view on the future of the research field of the heaviest elements.

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