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Superheavy Element Studies at LBNL

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Despite knowing about SHE for more than a decade, several important questions about these nuclei remain unanswered, including what are the atomic numbers, Z , and masses of these nuclei. Recently, our group has been working towards answering this intriguing question through one of three methods: (i) linking the SHE to known nuclides (ii) Z identification through observation of characteristic x-rays (iii) mass determination through mass analysis. This talk will review the progress that has been made for each of the three methods at LBNL and discuss possible avenues for the future.

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