

Structure and decays of high-K states in SHN

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I intend to propose several research themes that could be eventually implemented on the new high current cyclotron. The following topics related to the high-K isomerism phenomenon in Super-Heavy Nuclei (SHN) will be discussed:

- **High-K g. s. in odd and odd-odd SHN**
- **2qp & 4qp high-K isomers in even-even SHN**
- **Super-Deformed Oblate (SDO) high-K isomers & g.s.**
- **High-K isomers in superdeformed prolate minimum**
- **Fission hindrance of high-K states in SHN**
- **Sizes and shapes of high-K states in SHN**