

PLPAC meeting 2024-1

Contribution ID : 8

Search for high-spin isomers and shears band in odd-odd ^{206}At

Monday 22 Apr 2024 at 09:50 (00h15')

PI info :

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local collaborator info :

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Collaborators Name :

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Motivation :

In the proposed experiment, we plan to search for high-spin isomers and shears band in odd-odd ^{206}At . ^{206}At lies at the lower boundary of the transitional region ($Z > 82$, $N < 126$), where competition between two extreme modes of nuclear excitations result in diverse structural phenomena. One of these aspects is nuclear isomers. Study of isomers is very important as they provide testing ground to various theoretical calculations. Another interesting phenomena is shears bands in weakly deformed nuclei in this region. We plan study shape evolution in At isotopes through study of shears bands and isomers in ^{206}At .

Beam time requirement in shifts :

21

Beam :

^{18}O (charge state 8+)

Beam Energy :

88-95

Beam Current :

1-2

Beam Port :

Hall2-15

Buncher Required :

Yes

Target / Sample Details :

193Ir

Whether the experiment is part of PhD work ? :

No

Whether the experiment is part of Post-Doc work ? :

Yes

Name of the Post Doc fellow :

Khamosh Yadav

information on the past beamtime at PLF :

NA

Publication information related to prior work at the PLF :

NA

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