

Proposal Number (User Support Office use only)

Date: _____

Proposal for Nuclear Physics Experiment at RI Beam Factory
(RIBF NP-PAC-23, 2022)

Title of Experiment	
Category	<input type="checkbox"/> NP experiment <input type="checkbox"/> Detector R&D <input type="checkbox"/> Construction <input type="checkbox"/> Update proposal (Experimental Program: NP____-____) <input type="checkbox"/> Re-evaluation (Experimental Program: NP____-____)
Experimental Devices	<input type="checkbox"/> GARIS <input type="checkbox"/> RIPS <input type="checkbox"/> CRIB <input type="checkbox"/> KISS <input type="checkbox"/> BigRIPS <input type="checkbox"/> Zero Degree <input type="checkbox"/> SHARQA <input type="checkbox"/> OEDO <input type="checkbox"/> RI Ring <input type="checkbox"/> SAMURAI
Detectors	<input type="checkbox"/> DALI2 <input type="checkbox"/> GRAPE

Spokesperson (Only one person, Multiple spokespersons not accepted) :

Name		
Institution		
Title of position		
Address		
Tel	Fax	
Email		

Co-Spokesperson (If any) :

Name		
Institution		
Title of position		
Address		
Tel	Fax	
Email		

In-House Contact Person (If any) :

Name		
Institution		
Title of position		
Address		
Tel	Fax	
Email		

Beam Time Request Summary:

Please indicate requested beam times of $T_{\text{User-Tuning}}$ & $T_{\text{User-Data Run}}$ only. T_{BigRIPS} and **Total** times will be given by RIKEN.

Total Beam Time	T_{BigRIPS} : Tuning time with BigRIPS for secondary beam settings	(User Support Office use only)	Days
	$T_{\text{User-Tuning}}$: Tuning time for users' own equipment and/or detectors using primary / secondary beams		Days
	$T_{\text{User-Data Run}}$: Beam-time for data runs		days
TOTAL		(User Support Office use only)	days

Beam summary

Primary Beam:

Particle		Energy	(E/A MeV)	Intensity	(pnA)
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Secondary Beams:

RI Beams				Beam-on-Target Time for DATA RUN
Isotope	Energy (E/A MeV)	Rate of Isotope (/s)	Total Beam Rate @ F3 (/s)	Days

Fill each row for each BigRIPS setting, with objective isotope, its energy, rate, and total beam rate which cannot exceed $10^7/s$ in BigRIPS due to radiation regulation.

Keywords:

<input type="checkbox"/> New isotope search
<input type="checkbox"/> Lifetime measurement
<input type="checkbox"/> Mass measurement
<input type="checkbox"/> Superheavy element
<input type="checkbox"/> β - γ spectroscopy
<input type="checkbox"/> In-beam γ -ray spectroscopy <input type="checkbox"/> 2^+_1 study
<input type="checkbox"/> Nucleosynthesis <input type="checkbox"/> r process <input type="checkbox"/> rp process
<input type="checkbox"/> Nuclear structure around <input type="checkbox"/> ^{32}Mg <input type="checkbox"/> ^{42}Si <input type="checkbox"/> ^{78}Ni <input type="checkbox"/> ^{100}Sn <input type="checkbox"/> ^{132}Sn <input type="checkbox"/> Others ()
<input type="checkbox"/> Nuclear reaction
<input type="checkbox"/> Shell evolution
<input type="checkbox"/> Nuclear moment
<input type="checkbox"/> Spin-isospin excitation
<input type="checkbox"/> Nuclear force
<input type="checkbox"/> Nuclear equation of state
<input type="checkbox"/> Exotic atom
<input type="checkbox"/> Others ()

Readiness

Estimated date ready to run the experiment	
Dates which should be excluded, if any	

Summary of Experiments

Detailed Description of the proposed experiment

Please describe in details about the proposed experiment, where the format is free. They should include;

1. Goals and methods of the proposed experiment
 2. Estimation of beam time requested
 3. Experimental conditions such as beam conditions, targets and detectors
 4. Readiness
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