

Proposal Number (User Support Office use only)

Date: _____

Proposal for Nuclear Physics Experiment at RI Beam Factory (RIBF NP-PAC-26, 2025)

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"/> Proposal for scientific program
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"/> SHARAQ <input type="checkbox"/> OEDO <input type="checkbox"/> RI Ring <input type="checkbox"/> SAMURAI
Detectors	<input type="checkbox"/> DALI2 <input type="checkbox"/> GRAPE <input type="checkbox"/> C2URIE Ge array

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 $10^7/\text{s}$ in BigRIPS due to radiation regulation.

Keywords:

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

Readiness

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

Summary of Experiments

[illegible]

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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