

## LETTER OF INTENT FOR PROJECT (Category II) AT RCNP

Dec. 2020

**TITLE:**

Title title

**SPOKESPERSON:**

Full Name	Spokes Person
Institution	Department of Physics, xxxxx University
Title or Position	Professor
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**RESEARCH COLLABORATION:**

Full Name	Institution	Title or Position
First Member	Department of Physics, xxxx University	(P)
Second Member	Department of Physics, xxxx University	(P)
	.	(AP)
	.	(AP)
	.	(AP)
	.	(D2)
	.	(M1)

**RESEARCH PERIOD:** 5 years (From Apr. 2021 to Mar. 2026)**RESOURCES OF RCNP TO BE UTILIZED:**

GRAND RAIDEN Spectrometer and its DAQ system  
 A Germanium detector and MCA

**BEAM LINE AND REQUIREMENTS:**

Ring : WS course

**Beam time**

Installation time without beam	3 days(for each beam time)
Development of device	1 days
Test running time for experiment	4 days(incl. $\gamma$ ray measurement with a Ge detector)
Data runs	13 days

**Beam requirements**

Type of particle	polarized p
Beam energy	400 MeV
Beam intensity	$\leq 10$ nA
Other requirements	energy resolution $\leq 200$ keV halo-free, small emittance

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**SPOKESPERSON:** Spokes Person

**SUMMARY OF THE LETTER OF INTENT**

Summary.

## DETAILED DESCRIPTION OF PROPOSED RESEARCH

Scientific motivation of .....

## BUDGET PLAN

One of the collaborators FM is supported by KAKENHI Grant-in-Aid for Scientific Research (C) from FY2020 to FY2022. The Spokesperson SP has applied for KAKENHI Grant-in-Aid for Scientific Research (A) starting from FY2021. Part of the cost to accomplish the research project is expected to be supported by RCNP. Another source of the budget is .....

The detail of the budget and its source is summarized as follows:

Item	Detail	Amount	Source
Experimental expenses			
	Chamber gas	50,000 yen	KAKENHI
	Liq. N <sub>2</sub>	50,000 yen	RCNP
	Target (enriched <sup>48</sup> Ca)	200,000 yen	RCNP
Travel expenses			
	from Tokyo to RCNP	400,000 yen	KAKENHI
	from Kyoto to RCNP	50,000 yen	RCNP
Total		750,000 yen	
Expected RCNP support		250,000 yen	