

1	Title of research		Hunting for T-violation and Majorana Character of Neutrinos in Muon Decays
2	List of Participants (Name and affiliation)		Koichiro Shimomura, Professor at KEK, ksimomu@post.kek.jp
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3	Period of research		Two years from April 2020 to March 2022.
4	Main location of collaboration implementation		J-PARC
5	Publication list (Please include DOI if available)	Articles	(i) μ - τ symmetry breaking and CP violation in the neutrino mass matrix Takeshi Fukuyama(Osaka U., Res. Ctr. Nucl. Phys.), Yukihiro Mimura(Ritsumeikan U., Kusatsu) (Jan 30, 2020) Published in: Phys.Rev.D 102 (2020) e-Print: 2001.11185 [hep-ph]
			(ii) The Relativistic Corrections of GPS Takeshi Fukuyama(Osaka U., Res. Ctr. Nucl. Phys.), Sueo Sugimoto(Ritsumeikan U., Kusatsu) (Jul 11, 2020) e-Print: 2007.04582 [hep-ph]
		Talks	NEWS1907 (July 18, 2019) Speaker: Prof. Takeshi Fukuyama (RCNP) Title: Searching for New Physics beyond the Standard Model in Electric Dipole Moment
		Theses	NEWS1912-2 (December 19, 2019) Speaker: Prof. Takeshi Fukuyama (RCNP) Title: Hunting for T-violation and Majoranality of Neutrinos in Muon Decays
6	Description of the results and outputs		In publication (i): We have discussed the origin of the μ - τ symmetry found by us. In publication (ii): We have calculated the special and general relativistic effects of the Global Positioning System (GPS), especially the effects depending on the small deviation of the orbit from the circular one. In the talk of NEWS1912-2 (December 19, 2019), we have explained the outline of our project of this budget. We will apply for this project to the Kakenhi for the coming academic year.