

## Symposium on Nuclear Data 2020

Ag102 12.9 m	Ag103 65.7 m	Ag104 69.2m	Ag105 41.29 d	<b>S</b> ymposium on	Ag107 51.839 %	Ag108 2.37 m	Ag109 48.161 %	Ag110 24.6 s	Ag111 7.45 d	Ag112 3.130 h
Pd101 8.47 h	Pd102 1.02 %	Pd103 16.991 d	Pd104 11.14 %	Pd105 22.33 %	<b>N</b> uclear	Pd107 8.36 s	Pd108 26.46 %	Pd109 11.70(2) s	Pd110 11.72 %	Pd111 33.4 m
Rh100 20.8 h	Rh101 3.3 y	Rh102 2.57 d	Rh103 100 %	Rh104 42.3 s	Rh105 37.95 h	<b>D</b> ata	<b>2020</b> Nov.	Rh108 8.0 m	Rh109 89 s	Rh110 3.3 s

Contribution ID: 48

Type: **Poster Presentation**

# Study of the fission path energy of U-236 using microscopic mean-field model

Thursday, November 26, 2020 4:50 PM (2 hours)

Microscopic mean-field model is one of strong methods for providing and improving fission-related nuclear data.

It needs appropriate effective interaction, but there is no effective interaction designed for fission path.

In order to tackle this problem, we calculate the U-236 potential energy surface with respect to the elongation of a nucleus and the mass asymmetry with existing Skyrme effective interactions.

We report the energy characteristics of potential energy surface and important parts for correcting the fission barrier.

**Primary author:** FUJIO / 藤尾, Kazuki / 和樹 (Tokyo Institute of Technology)

**Co-authors:** Prof. CHIBA / 千葉, Satoshi / 敏 (Tokyo Institute of Technology / 東京工業大学); Dr EBATA / 江幡, Shuichiro / 修一郎 (Saitama university); Dr INAKURA / 稲倉, Tsunenori / 恒法 (Tokyo Institute of Technology / 東京工業大学)

**Presenter:** FUJIO / 藤尾, Kazuki / 和樹 (Tokyo Institute of Technology)

**Session Classification:** Poster