



UNIVERSITÄT
BAYREUTH



2019 10 4

Spring-8

660 km

Spring-8 ¹

X

BL04B1

²

2 km

660 km

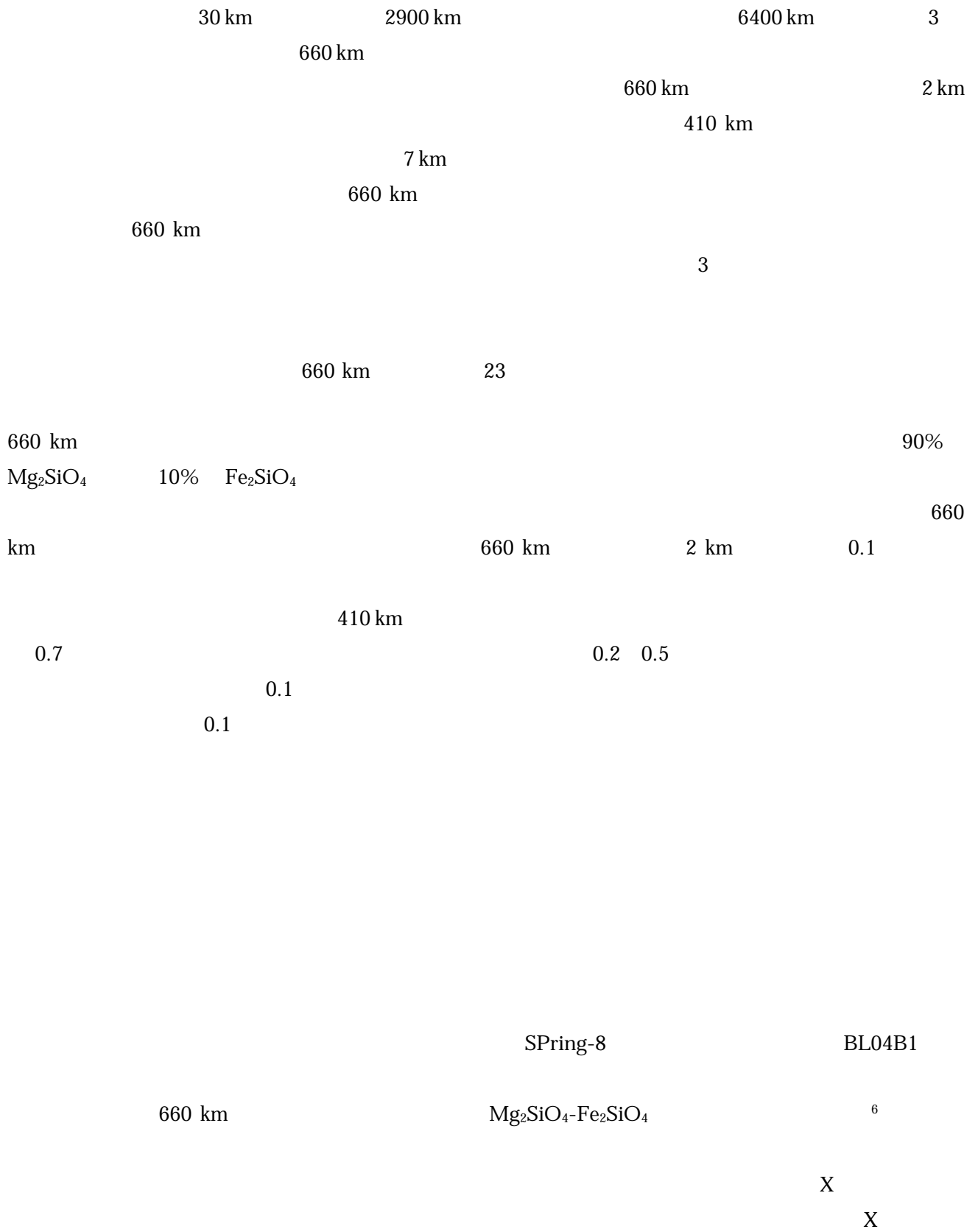
³

660 km

660 km

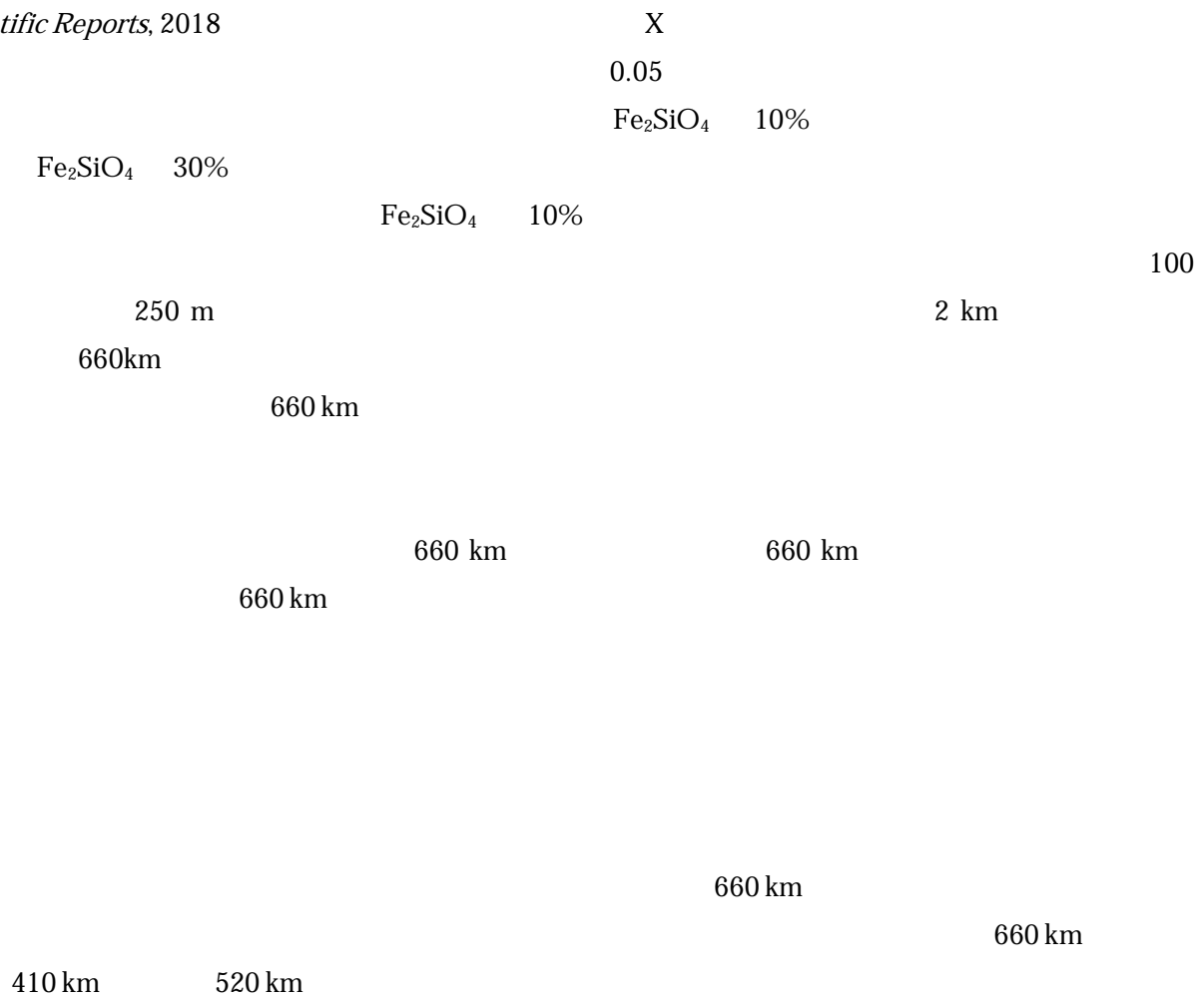
⁴

Nature Geoscience



Katsura et al. *Physics of the Earth and Planetary Interiors*, 2004;

Ishii et al. *Review of Scientific Instruments*, 2016; Ishii et al. *High Pressure research*, 2017; Ishii et al. *Scientific Reports*, 2018

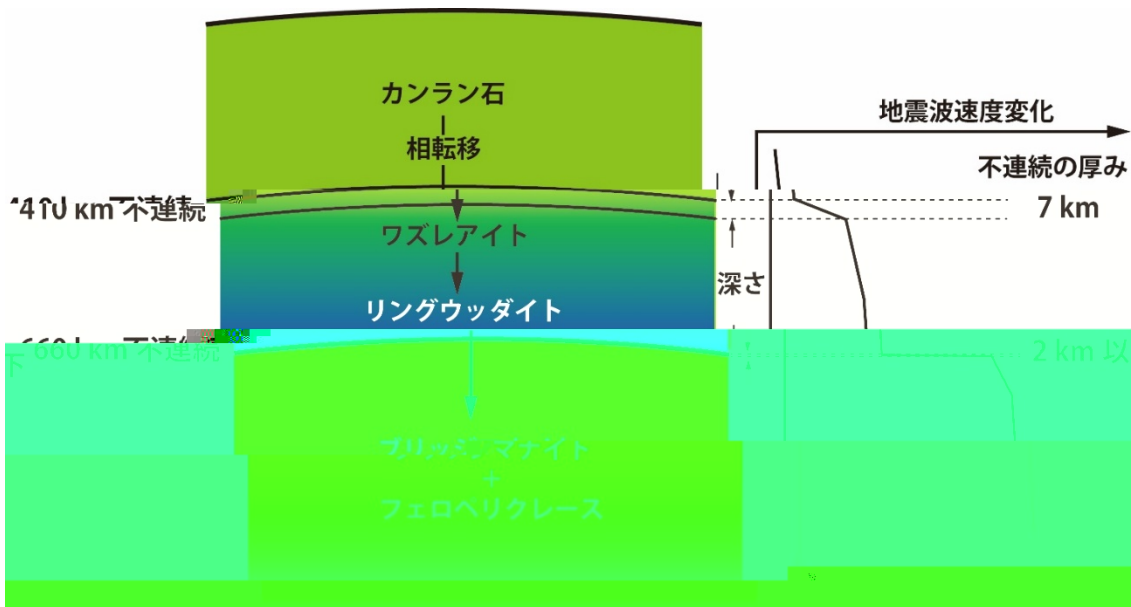
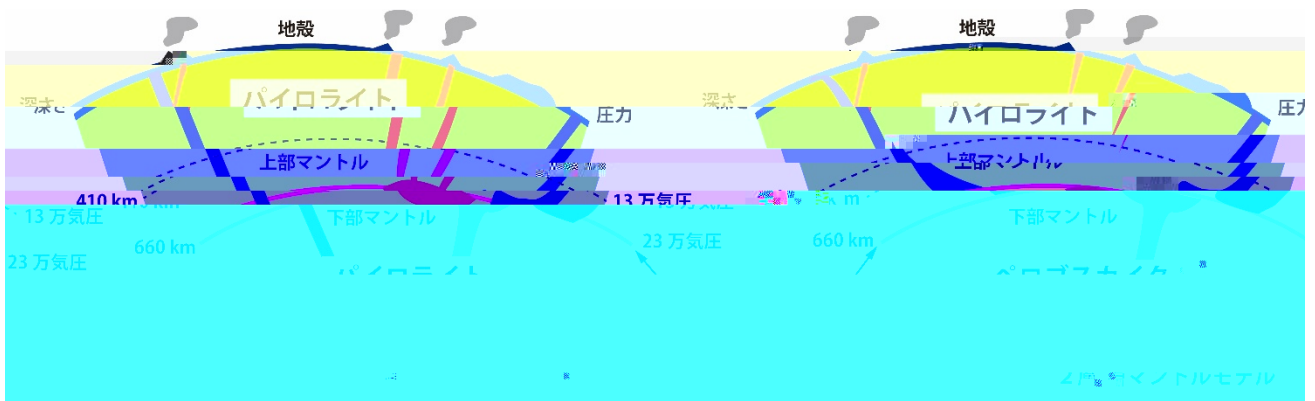


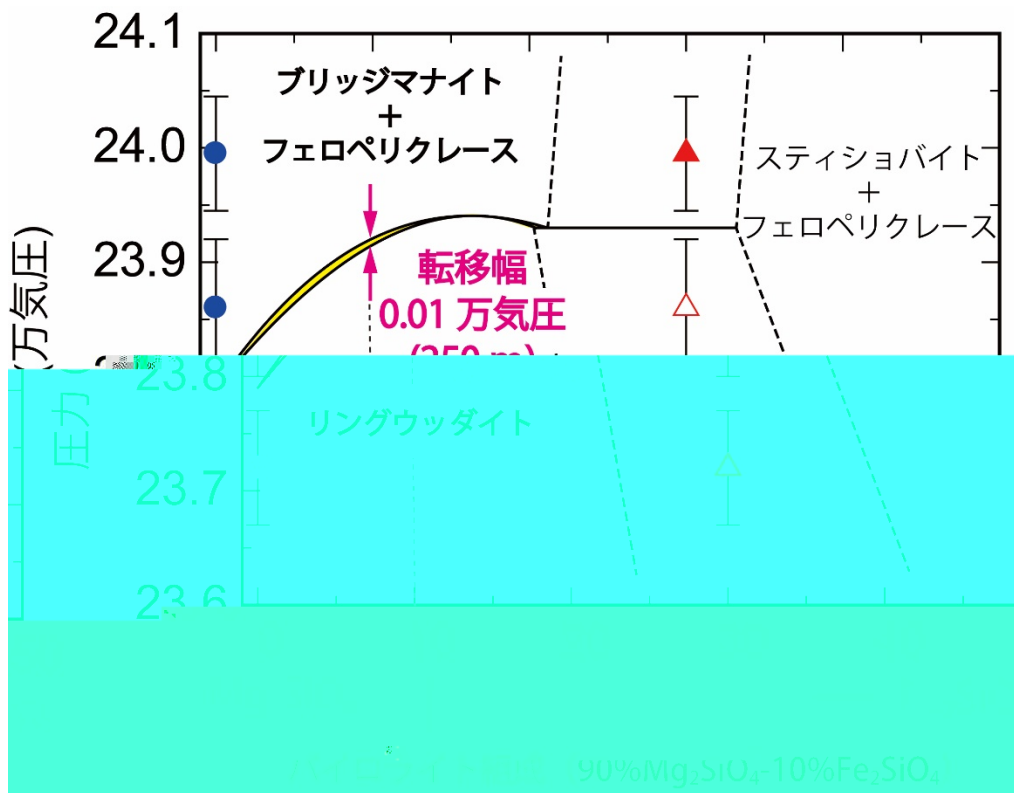
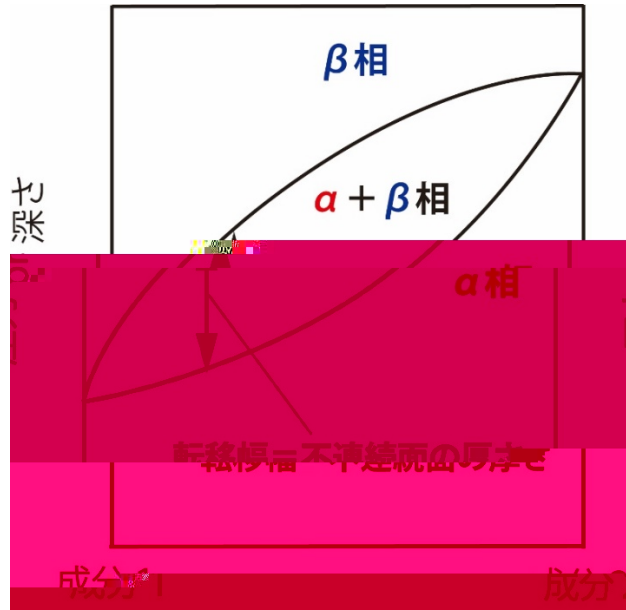
Sharp 660-km discontinuity controlled by extremely narrow binary post-spinel transition

660 km

Takayuki Ishii, Rong Huang, Robert Myhill, Hongzhan Fei, Iuliia Koemets, Zhaodong Liu, Fumiya Maeda, Liang Yuan, Lin Wang, Dmitry Druzhbin, Takafumi Yamamoto, Shrikant Bhat, Robert Farla, Takaaki Kawazoe, Noriyoshi Tsujino, Eleonora Kulik, Yuji Higo, Yoshinori Tange, Tomoo Katsura

Nature Geoscience





660 km

1 SPring-8

SPring-8
JASRI

SPring-8

Super Photon ring-8 GeV

2

3 660 km
660 km

660 km

660 km

23 1700
2 km

410

km 7 km

4

5

90% Mg₂SiO₄ 10%

Fe₂SiO₄

6

2 “ ”

H₂O

0 É

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D-95447 Bayreuth, Germany
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