

【本件リリース先】

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広島大学



NEWS RELEASE

9



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(2)



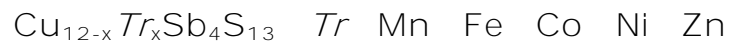
(3)



10

BLO2B1

SPring-8  
X



S

S<sub>3</sub>

Cu

(a) S<sub>3</sub>

S

Cu

(b) Cu

Sb

3

BLO2B1

SPring-8

X

S

Cu

(a)

B

2 9 9  
Rapid Communications

Physical Review

# Pressure induced quenching of planar rattling in $\text{Cu}_{10}\text{Zn}_2\text{Sb}_4\text{S}_{13}$ studied by specific-heat and x-ray diffraction measurements

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Physical Review B Rapid Communications

DOI

10.1103/PhysRevB.102.100302

(4)

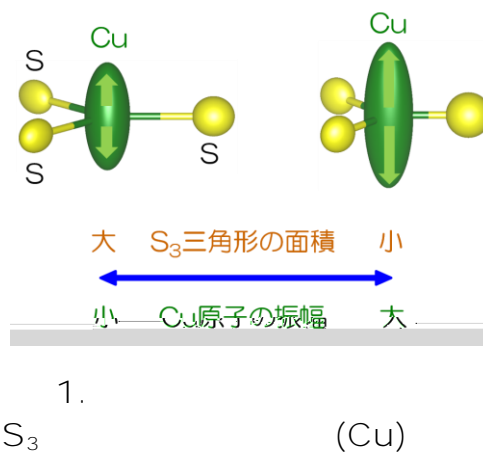
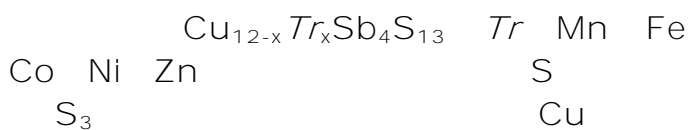
1995

phonon-glass electron-crystal

(5)

2010

2013



<https://www.jst.go.jp/pr/announce/20180201/index.html>

$\text{Cu}_{10}\text{Zn}_2\text{Sb}_4\text{S}_{13}$

He

BLO2B1 X SPring-8 1.9

2  $C/T^3$   $Cu_{10}Zn_2Sb_4S_{13}$  C 3

$C/T^3$   $Ba_8Ga_{16}Sn_{30}$  a 4 K

$Ba_8Ga_{16}Sn_{30}$   $C/T^3$  Ba

$C/T^3$  0.7 0.7 GPa

Sb

$S_3$

S

Cu

$C/T^3$

2

$Ba_8Ga_{16}Sn_{30}$   $C/T^3$

Cu

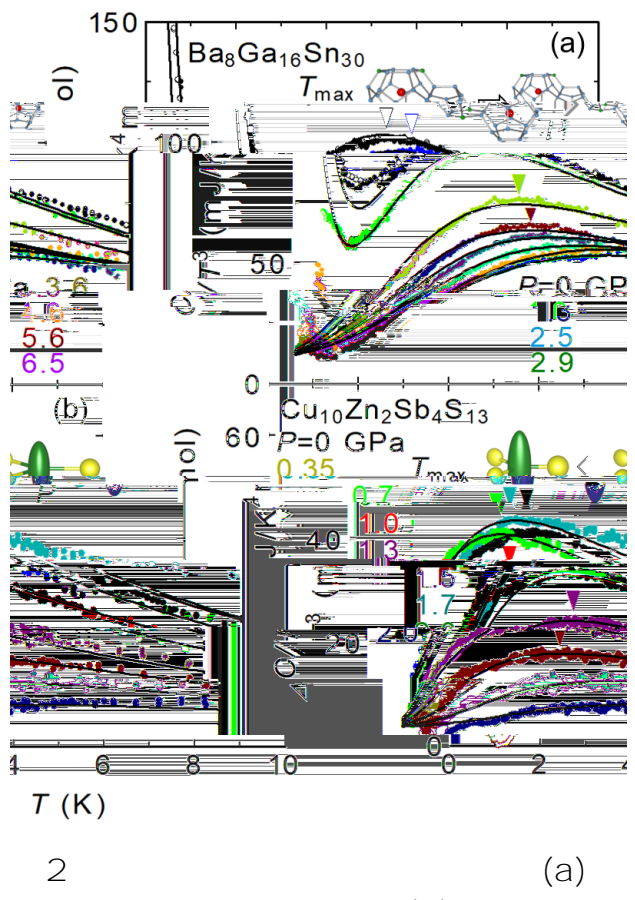
$S_3$

Cu

1.9

Cu

$S_3$



(a)

$Ba_8Ga_{16}Sn_{30}$  (b)

$Cu_{10}Zn_2Sb_4S_{13}$  C 3

$C/T^3$

S

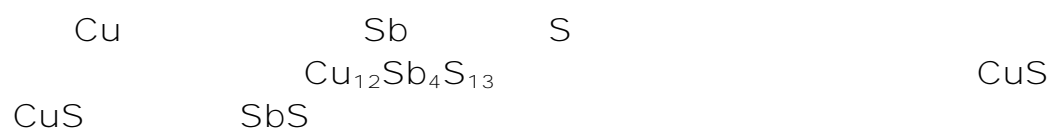
JPMJCR16Q6 JPMJCR20Q4)  
25400375 18K03518 18H04324 18H04499)

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(4)

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