D3h J1/J3-beta phase diagram at K = 0

(task129, L = 10, 2000 samples; 14 May 2016 )

J1/J3      beta\_c by susceptibility peak

biaxial-uniaxial transition (D3h-Dinfh)

0 infity

0.5     3.62 +/- 0.02

0.7     2.56 +/- 0.02 (skip)

1.0     1.82

1.3     1.42 (skip)

1.5     1.24

1.7     1.12 (skip)

2.0     0.98

2.5     0.79

3.0     0.65 (3-point)

uniaxial - liquid transition (Dinfh-O3)

0 1.8

0.5     1.55 +/- 0.02

0.7     1.44 (skip)

1.0     1.26

1.3     1.12 (skip)

1.5     1.03

1.7     0.96 (skip)

2.0     0.85

2.5     0.72

3.0     0.63 (3-point)

biaxial-liquid transition (D3h-O3)

3.0     0.65 (3-point)

3.5     0.58

4.0     0.51