C2 J1/J3-beta phase diagram at K = 0

(task91, 94, L = 12, 5000 samples; 30 March 2016 )

J1/J3      beta\_c by susceptibility peak

biaxial-uniaxial transition (C2-Cinfv)

0.5     1.21 +/- 0.05

0.6     1 +/- 0.05

0.7    0.88 +/- 0.05

0.8    0.8 +/- 0.05

0.9     0.74 +/- 0.05

1.0     0.68 +/- 0.03

1.1     0.64 +/- 0.03

1.2     0.59 +/- 0.03

1.3     0.57 +/- 0.03

1.4     0.52 +/- 0.02 (tricritical/triple point)

uniaxial - liquid transition (Cinfv-O3)

0.5     0.62

0.6     0.61

0.7     0.6

0.8     0.6

0.9     0.59

1.0     0.57 +/- 0.02

1.1     0.56 +/- 0.02

1.2     0.55 +/- 0.02

1.3     0.54 +/- 0.02

1.4     0.52 +/- 0.01 (tricritical/triple point)

biaxial-liquid transition (C2-O3)

1.4      0.52 (tricritical/triple point)

1.5     0.51

1.6     0.5

1.7     0.48

1.8     0.47

1.9     0.45

2.0     0.44

2.1     0.42

2.2     0.41

2.3     0.40

2.4     0.39

2.5     0.37