D2h J1/J3-beta phase diagram at K = 0

(task85, task98 and earlier simulations, L = 12, 5000 samples; 30 March 2016 )

J1/J3      beta\_c by susceptibility peak

biaxial-uniaxial transition (D2h-Dinfh)

0.00     infinite

0.05     13.2 +/- 1

0.10     6.8 +/- 0.5 (can be skipped)

0.15     4.8 +/- 0.5

0.20     4.35 (can be skipped)

0.25     3 +/- 0.3

0.35     2.3 +/- 0.2 (can be skipped)

0.45     1.85 +/- 0.1

0.55     1.65 +/- 0.05

0.65     1.44     (tricritical/triple point)

uniaxial-liquid transition (Dinfh-O3)

0.00     1.8 +/- 0.05

0.05     1.73 +/- 0.05

0.10     1.72 +/- 0.05 (can be skipped)

0.15     1.7 +/- 0.05

0.25     1.68 +/- 0.05

0.35     1.63 +/- 0.05 (can be skipped)

0.45     1.56 +/- 0.05

0.55     1.51 +/0.02 (can be skipped)

0.65     1.44  (tricritical/triple point)

biaxial-liquid transition (D2h-O3)

0.65     1.44  (tricritical/triple point)

0.70     1.40 +/- 0.02 (can be skipped)

0.75     1.35 +/- 0.02

0.85     1.25 +/- 0.02

0.90     1.21 +/- 0.02 (can be skipped)

0.95     1.17 +/- 0.02

1.05     1.09 +/- 0.02

1.10     1.05 +/- 0.02 (can be skipped)

1.15     1.02 +/- 0.02

1.20     0.98 +/- 0.02 (can be skipped)

1.25     0.95 +/- 0.02