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## **Figure captions**

Figure S1. The probability distributions of structure order parameter  $S_6$  for amorphous glasses, partial-crystallized glasses (crystallinity  $\chi = 0.5, 0.8$ ) and B2 crystals.

**Figure S2.** The self-diffusivity coefficients of Ni atoms  $(D_{Ni})$  and Ti atoms  $(D_{Ti})$  in the supercooled NiTi liquids at various temperatures.