

Q 3 (c) The X-rays must come from the hottest region, closest to the 'engine' of the AGN.

In such a region dust would be vapourised, or blown away by the intense radiation. Dust particles can only exist in relatively cool regions where the temperature is below their melting point and at such temperatures the particles radiate in the infra-red. Thus we would expect the IR-emitting region to be larger.

(See Fig. 3.26, p.111, Book 3)