

Captains' fight

Captains' fight n°3 : Question



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You have **2 minutes** to answer the following question :

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What is the angular diameter of Moscow as seen from the international space station ?

Captains' fight n°3 : Answer

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What is the angular diameter of Moscow in degrees as seen from the international space station ?

- ▶ Surface of Moscow : 2 511 km², estimated diameter : 55 km
- ▶ Orbit height the ISS : 400 km

The angular diameter of Moscow is

$$\alpha = \tan^{-1}(0,14) \approx 0,14 \times \frac{180}{\pi} = \boxed{7,9^{\circ}}$$