



Schweizerische Eidgenossenschaft
Confédération suisse
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Federal Institute of Metrology METAS

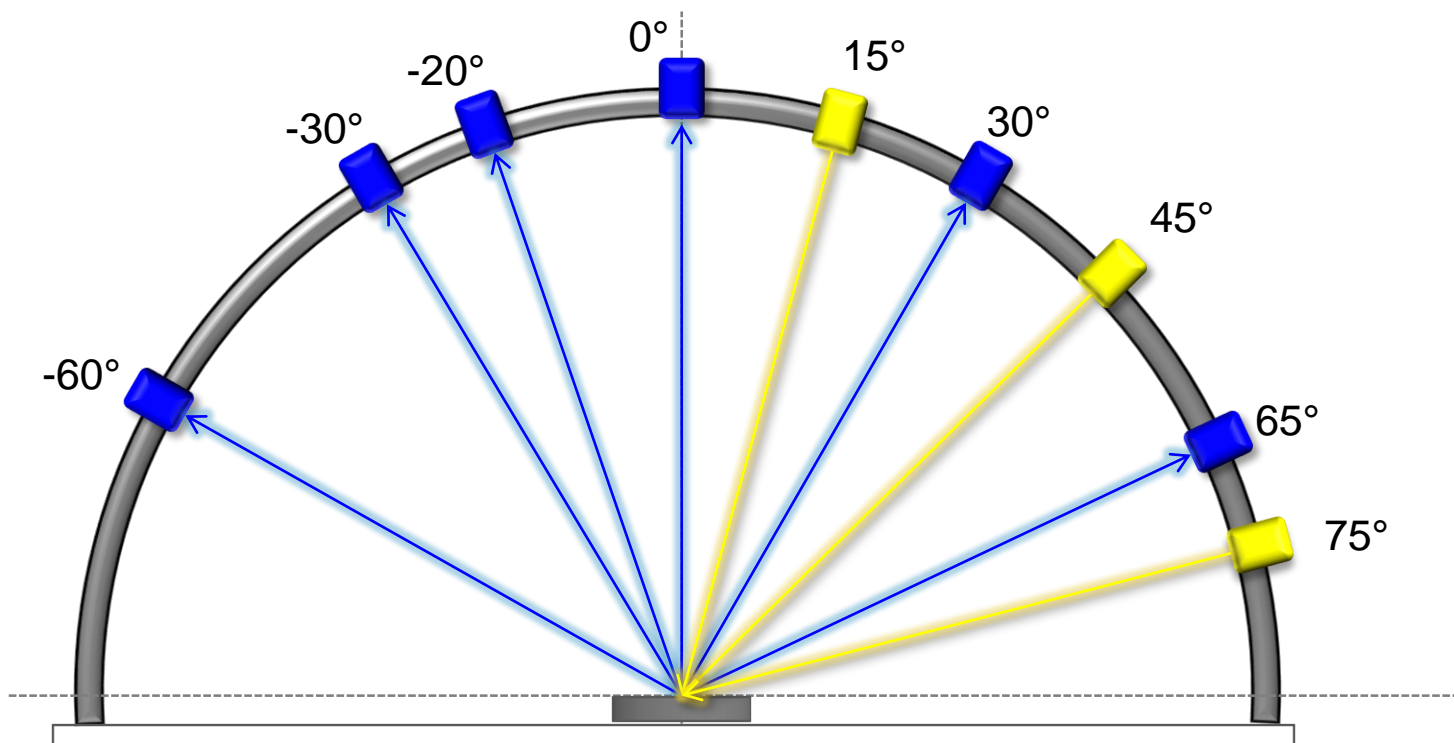


Sparkle and graininess facilities at METAS

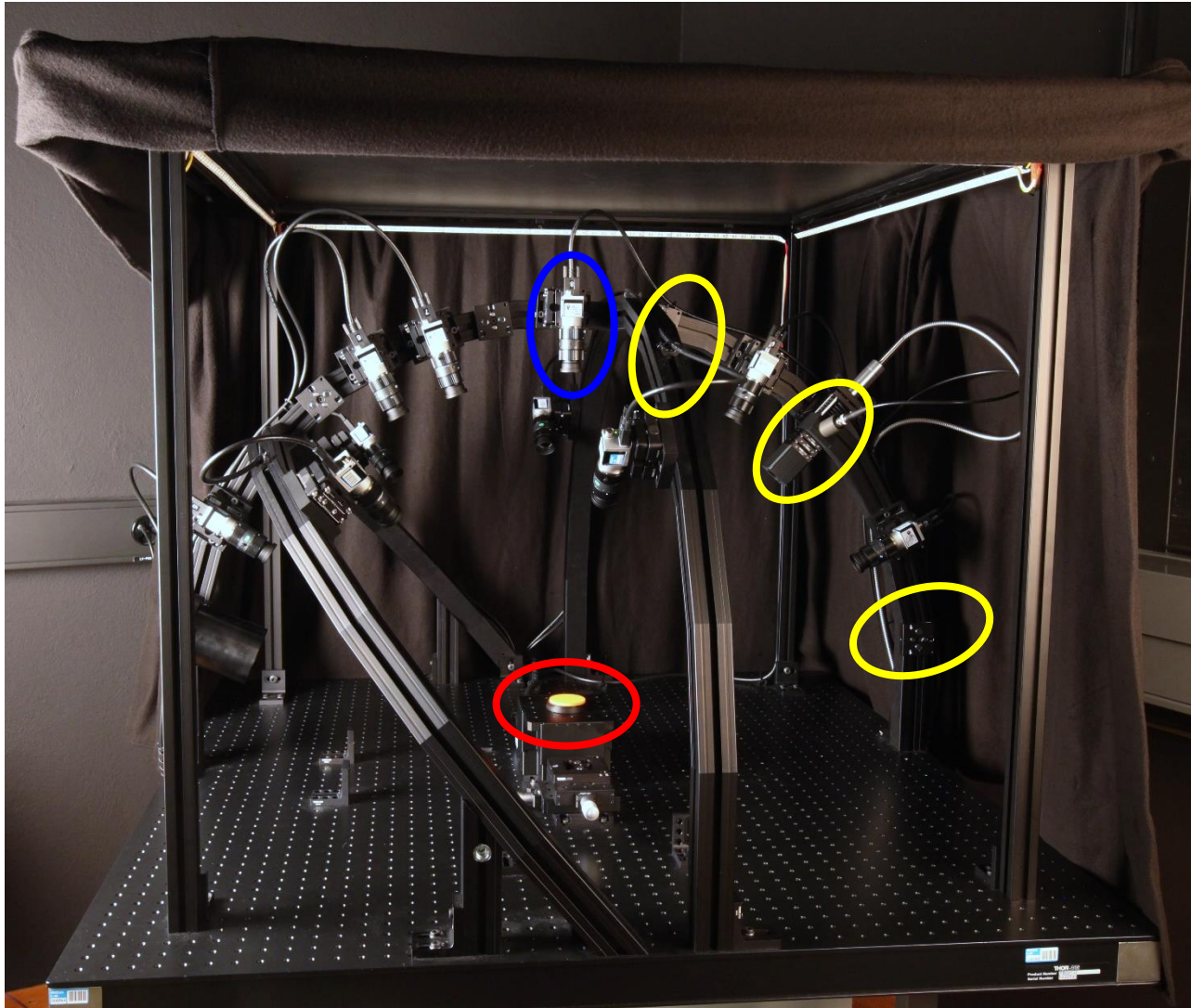
Nina Basic

Sparkle facility – MARS

- **Multi-angle Reflectance Setup - MARS**
- light source at 3 illumination angles
- spectrally tuneable from 390 to 700 nm
- 12-bit monochrome CMOS camera
- FOV = 30x30 mm, resolution = 42 μ m/px →
FOV = 20x20 mm, resolution = 11 μ m/px

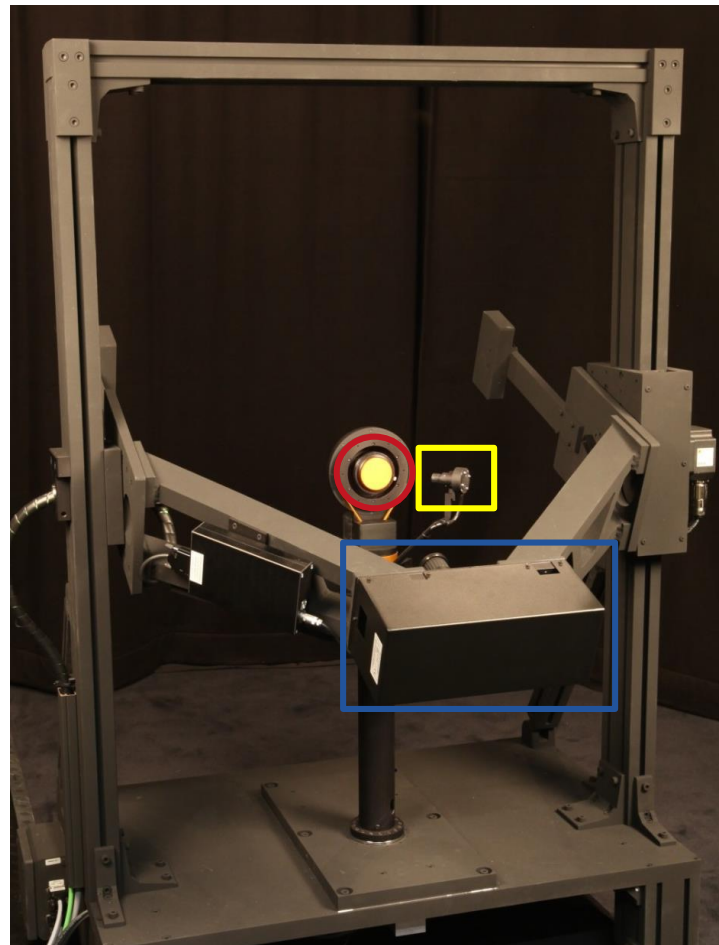


Sparkle facility – MARS



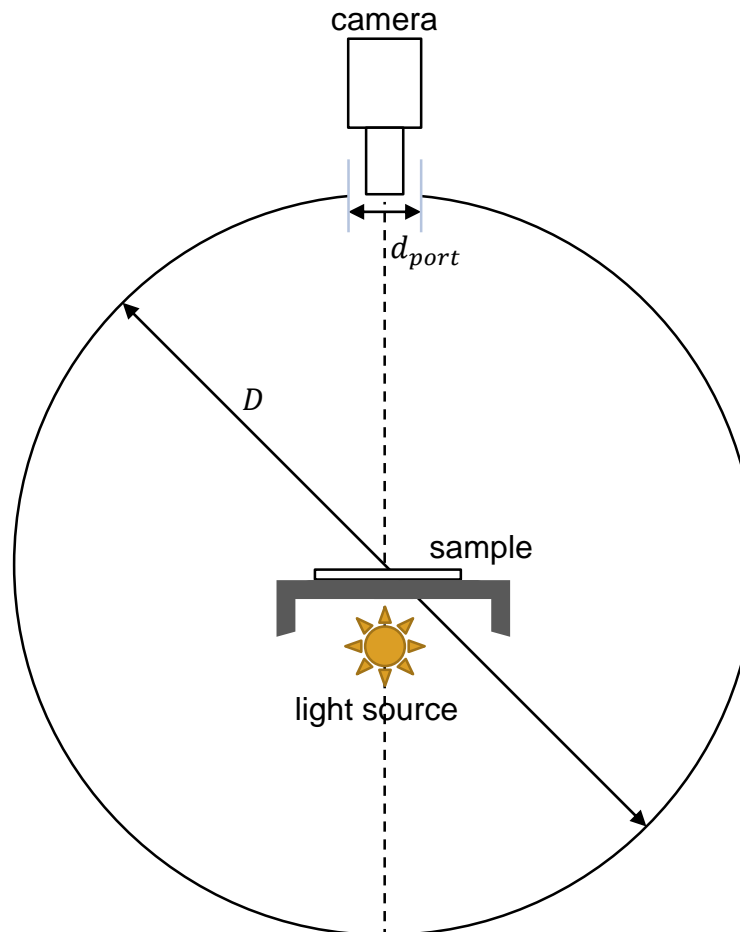
Sparkle facility – μ BRDF

- white light source at any illumination angle
- 14-bit CCD camera with colour chromaticity filters
- min - FOV = 16×16 mm, resolution = 16 μ m/px
max - FOV = 30×30 mm, resolution = 30 μ m/px



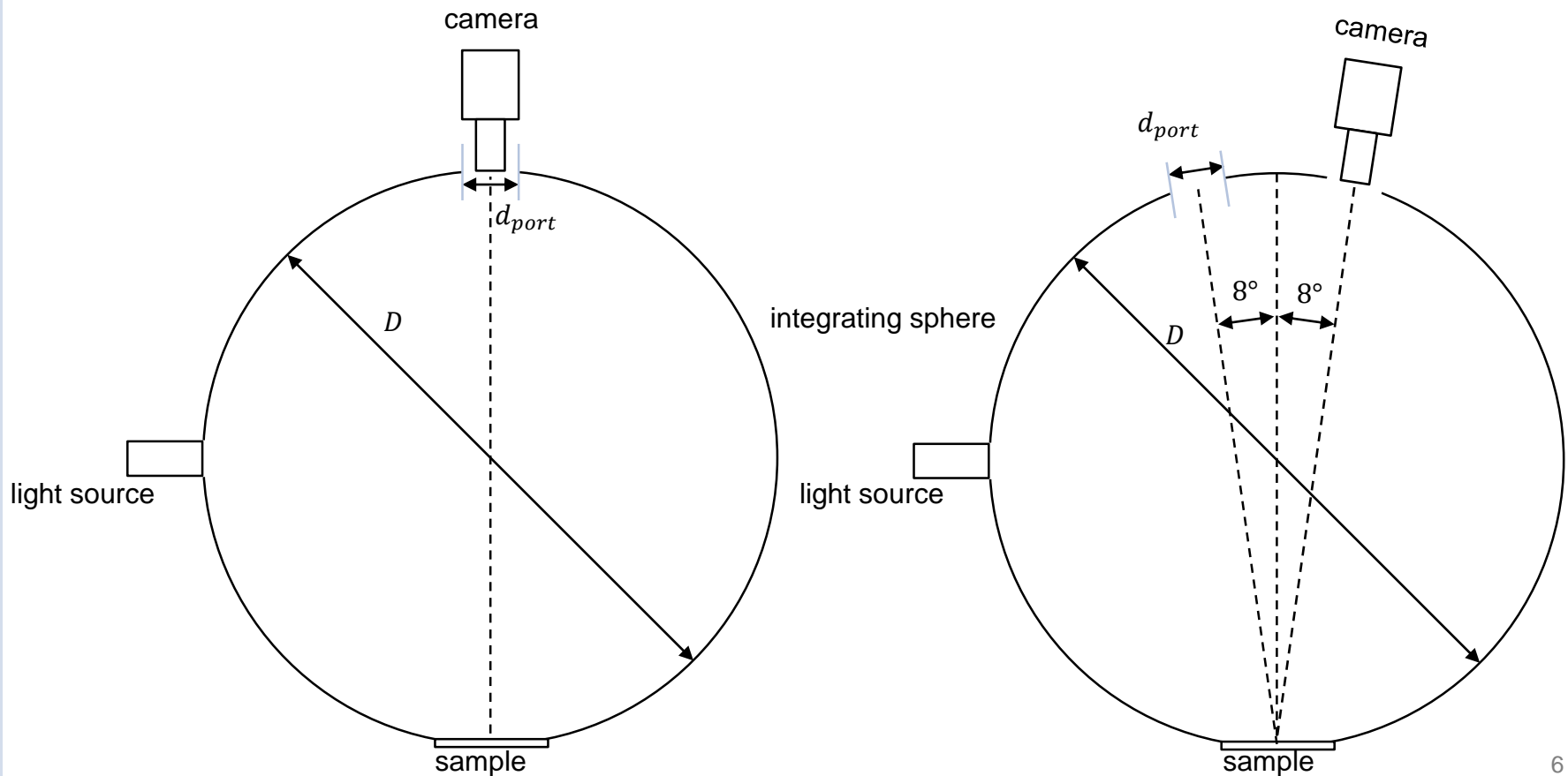
Graininess - large sphere – d:0°

- diameter = 1m
- white light source
- 14-bit CCD camera with colour chromaticity filters
- FOV = 76×105 mm, resolution = 76μm/px



Graininess - small sphere – d:0° / d:8°

- diameter = 150 mm
- spectrally tuneable light source from 390 to 700 nm
- 12-bit monochrome CCD camera
- FOV = 30x30 mm, resolution = 46μm/px





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Thank you very much for your attention