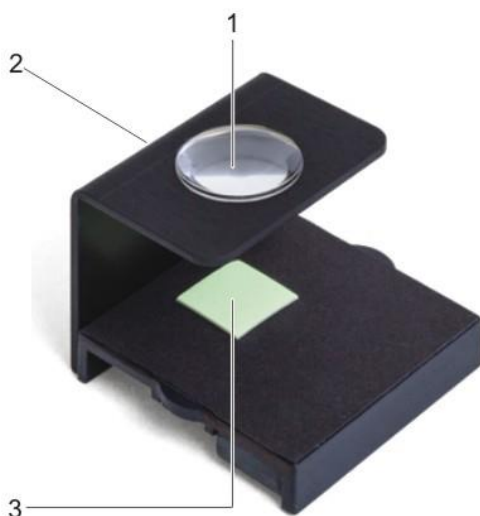


## Spintharoscope 1000918

### Instruction sheet

09/15 SP/ALF



- 1 Magnifying lens
- 2 Mounting for radiation cartridge
- 3 Fluorescent screen

#### 1. Safety instructions

- In experiments with radioactive substances, observe the regulations that currently apply for the region (e.g., radiation protection regulations).
- Mount the radiation cartridge in the instrument so that the side from which the radiation emerges is facing down towards the exposed zinc sulphide screen.

#### 2. Description

The spintharoscope allows scintillations produced on an exposed zinc sulphide screen by radiation from radioactive decay to be observed.

Looking through the magnifying lens in a completely darkened room allows the randomly spaced flashes of light caused by radioactive decay to be viewed.

#### 3. Technical data

|                     |                                 |
|---------------------|---------------------------------|
| Fluorescent screen: | zinc sulphide                   |
| Dimension screen    | approx. 15 x 15 mm <sup>2</sup> |
| Weight:             | approx. 35 g                    |

#### 4. Operation

Additionally required:

Radiation Cartridge, <sup>226</sup>Ra, 3,7 kBq 1006797

- Screw the radiation cartridge into the holder in such a way that the radiation-emitting side (the flat side) faces down towards the fluorescent screen.
- Darken the room and wait until your eyes have adjusted to the darkness.
- Look through the lens and observe the fluorescent screen.

If you hold a piece of paper in the path of the radiation, the fluorescent screen will appear completely dark, as the  $\alpha$ -particles cannot pass through the paper.