

SF2A 2026 - The 2SPOT Consortium: A Pro–Am Facility for Spectroscopic Follow-up in Astronomy

Lionel Mulato¹, Stéphane Charbonnel¹, Olivier Garde¹, Pascal Le Dû¹, and Thomas Petit¹

¹Southern Spectroscopic Project Observatory Team (2SPOT), 45, Chemin du Lac
38690 Châbons, France

April 2026

1 Abstract

We present the 2SPOT consortium¹, established in 2019 by five amateur astronomers, which operates two remotely controlled telescopes in Chile dedicated to spectroscopy: a 0.3-m Ritchey–Chrétien telescope equipped with a medium-resolution eShel spectrograph ($R \sim 10,000$) and a 0.3-m f/4 Newtonian telescope equipped with a low-resolution Alpy 600 spectrograph ($R \sim 600$).

We contribute to various pro–am collaboration programs by providing spectroscopic observations of a range of astrophysical objects. These include poorly studied southern Be stars, rapid-response observations of novae and transients, and the confirmation of planetary nebula candidates from amateur and professional surveys.

Since 2022, we have been involved in a long-term project aimed at identifying new Galactic symbiotic systems using *Gaia* DR3 data. This collaboration has enabled significant knowledge exchange and allowed us to develop independent research activities under professional supervision, including two studies focused on the search for new Galactic Wolf–Rayet stars and planetary nebulae using *Gaia* DR3 data.

¹<http://www.2spot.org>