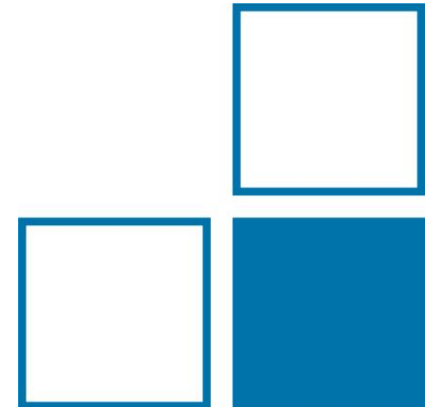


# Overview of WP1

*PTB, CNAM, CMI, CSIC, INRIM, MIKES, MSL, SP, UA,  
Ku Leuven*

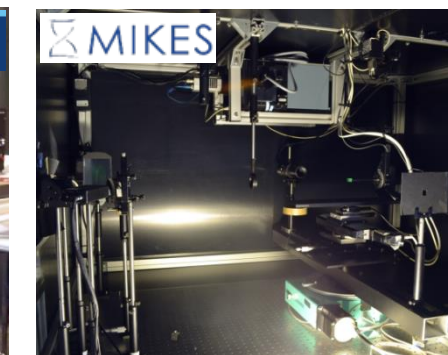
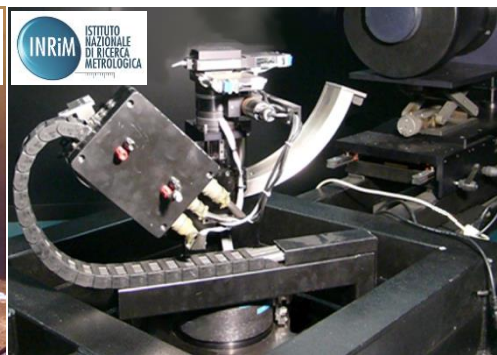
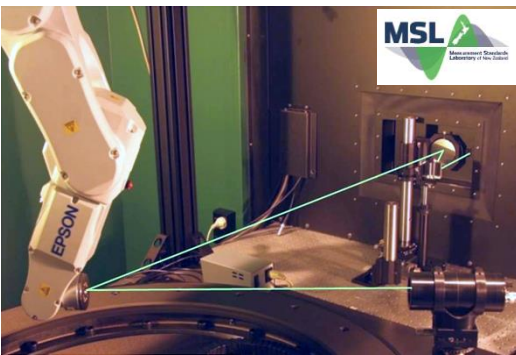
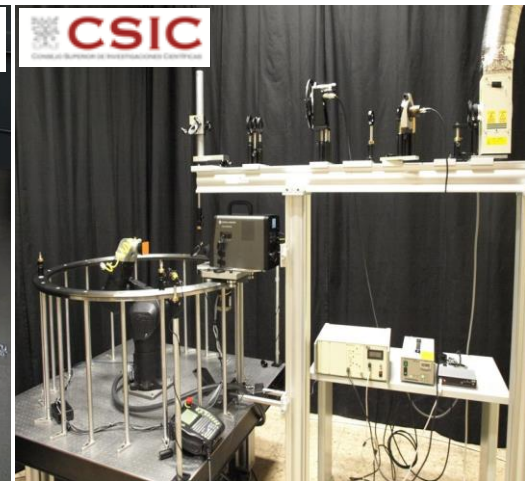
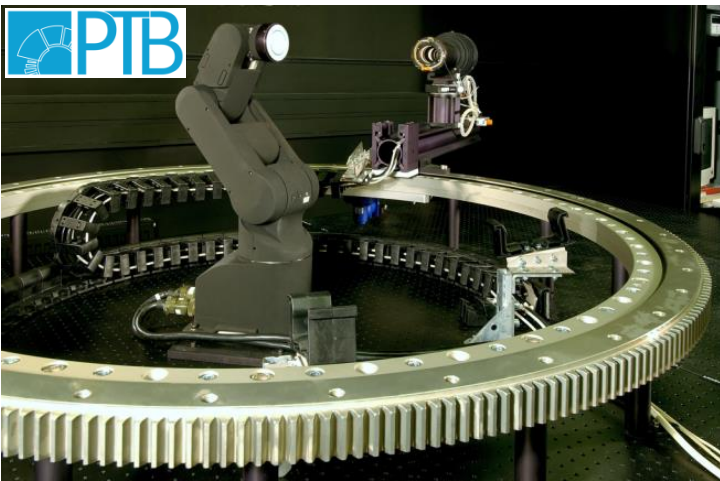
**Dr. Christian Strothkämper**

Physikalisch-Technische Bundesanstalt  
WG 4.24 "Reflection and Transmission"  
Bundesallee 100  
38116 Braunschweig

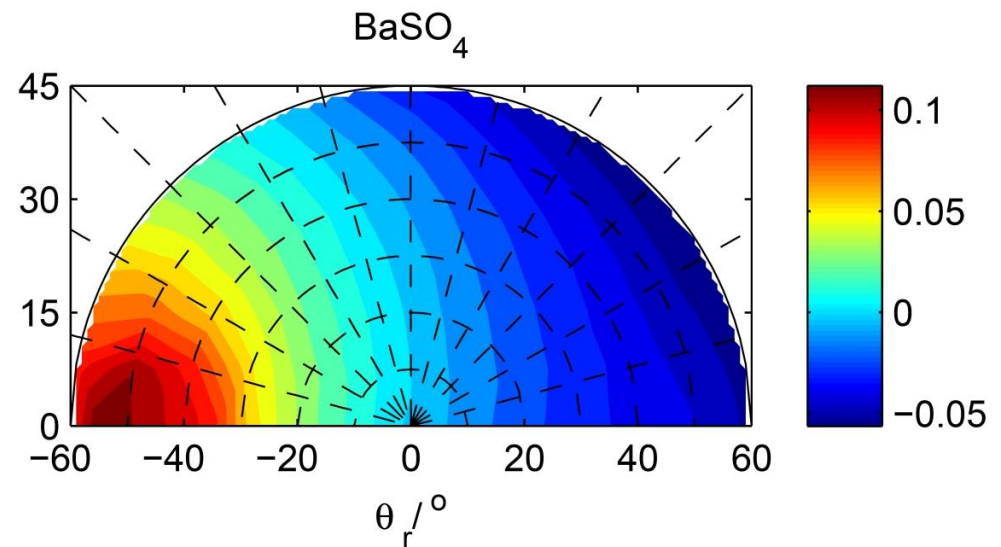
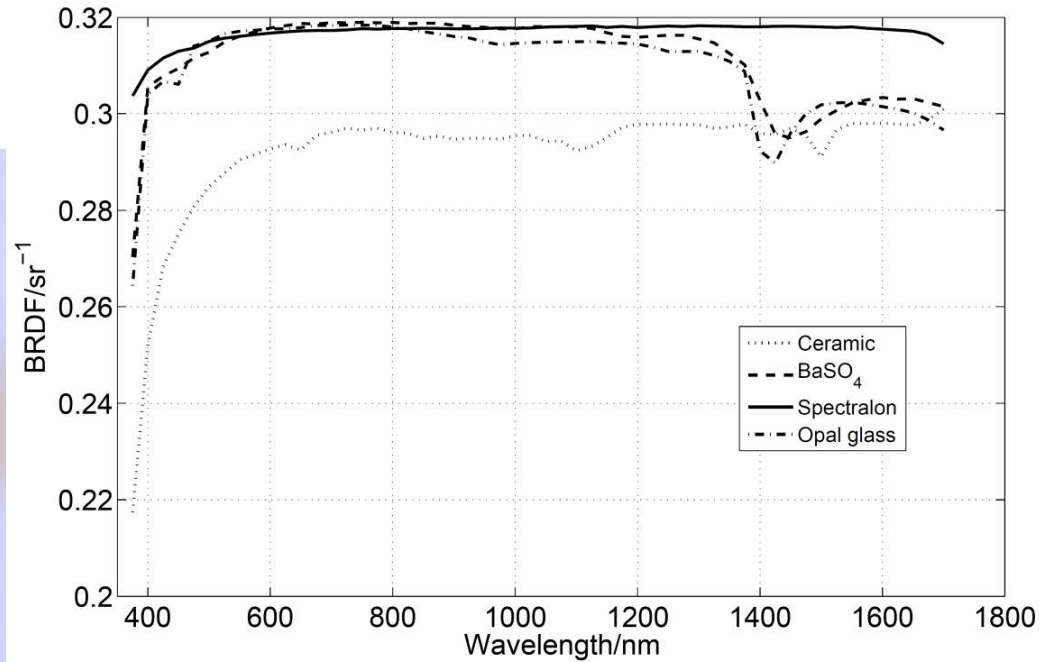
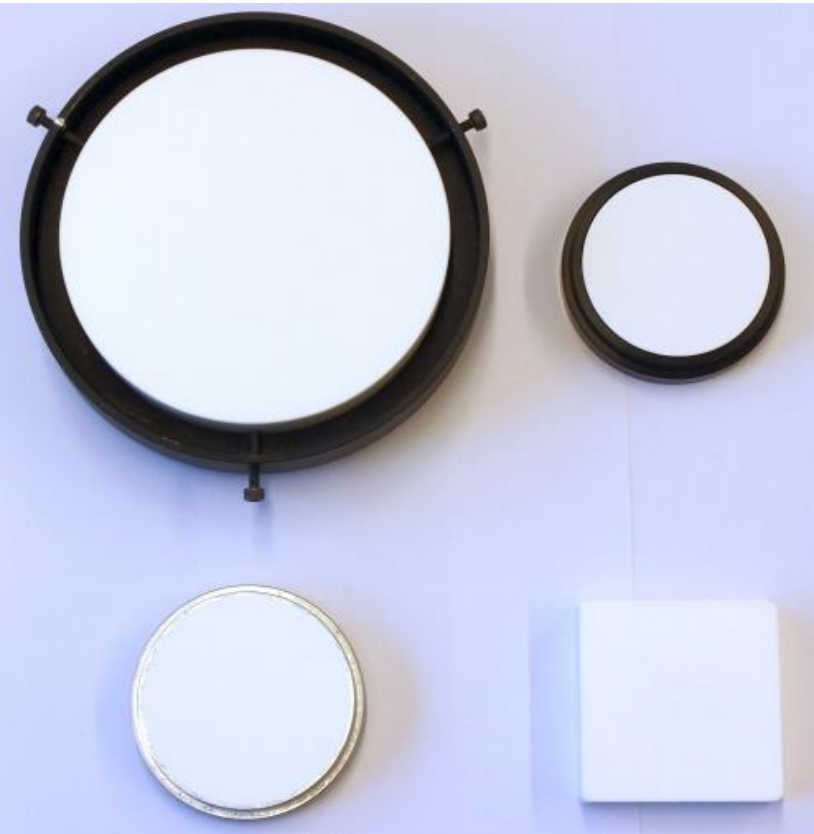


# Strengthen the traceability of BRDF measurements of goniochromatic surfaces and to reduce the uncertainty of the measurement

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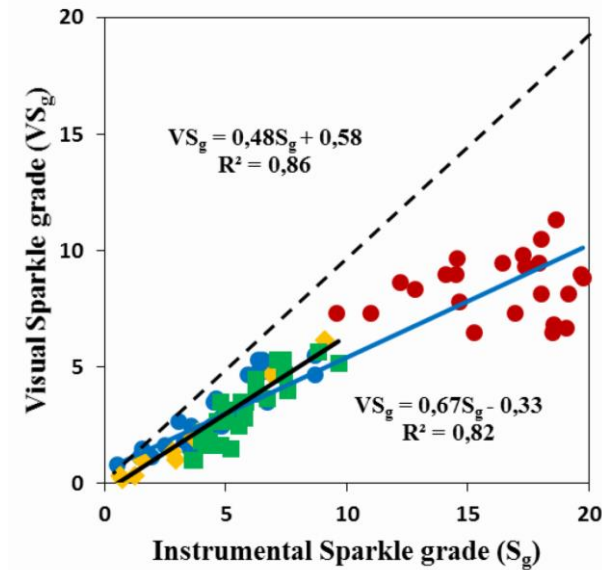
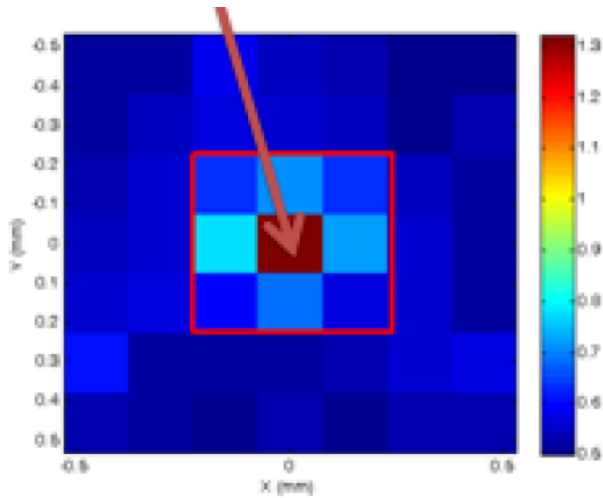
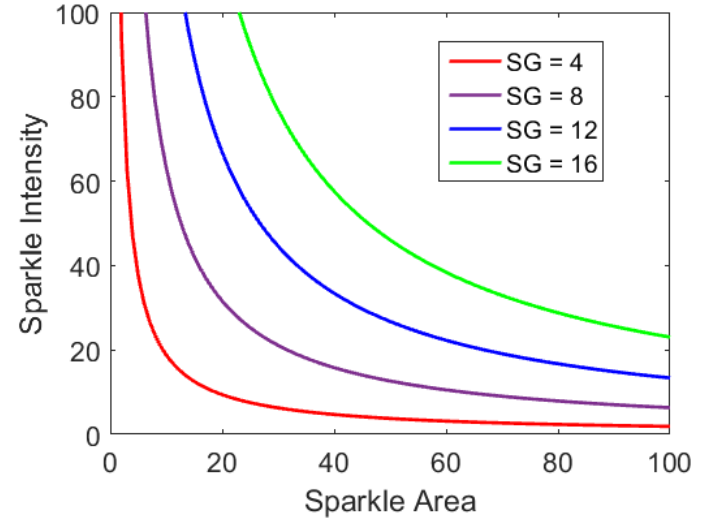
# Study the non-Lambertian behavior of standard reflection materials within an extended wavelength range.



# Characterization of visual appearance: Sparkle

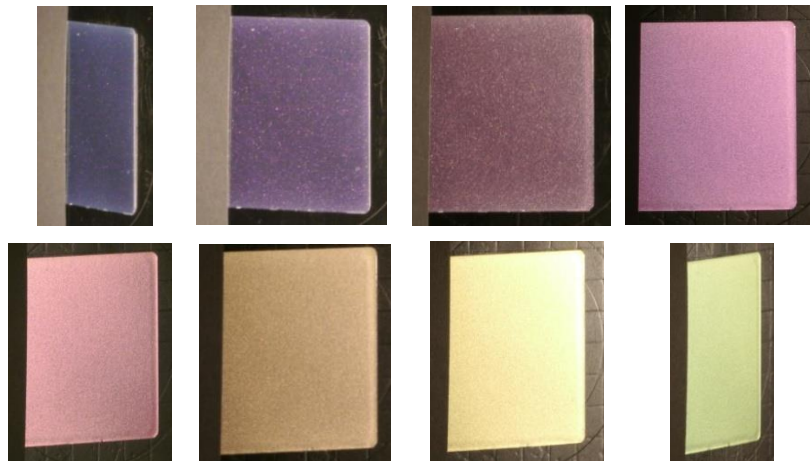


$$S_G = 0.35\sqrt{S_i \cdot S_a} - 0.8$$



# Characterization of visual appearance: Goniochromatism

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## Consistency analysis of multidimensional gonio-spectrophotometric measurements in interlaboratory comparisons

A. Ferrero<sup>1</sup>, J. Campos<sup>1</sup>, B. Bernad<sup>1</sup>, A. Pons<sup>1</sup>, M. L. Hernanz<sup>1</sup>, F. M. Martínez-Verdú<sup>2</sup> and A. Höpe<sup>3,†</sup>



A screenshot of the Reflect website. At the top left is the Reflect logo, which includes a stylized rainbow and the text 'JRP - IND 52' and 'Reflect'. To the right of the logo is the text 'MULTIDIMENSIONAL REFLECTOMETRY FOR INDUSTRY'. Below the logo is a navigation menu with buttons for 'Home', 'Summary', 'Project', 'Partners', 'Member Area', 'Collaborators Area', 'News', and 'Project Results'. Below the menu is a 'Contact us' link. The main content area has the heading 'BRDF Data' and a warning: 'Warning: Reflection standards require a calibration. The BRDF data you can find here applies only to specific samples but not to a material class. An uncertainty is not specified, the data here is only for illustrative purposes!'. Below the warning is the heading 'Laquerings based on interference pigments' and a square image of a magenta pigment. Below the image is the text 'Chromaflair 330 - Magenta Gold'. On the right side of the page, there are logos for 'EUI' and 'EMF' (European Metrology Programme of Excellence). Below these logos is a 'Recent Posts' section with a list of links: 'Next Progress r', '5th Progress m', 'CIE Tutorial on', '4th CIE Expert : Visual Appeara', and 'xD Reflect at CI'.