The group **Fiber Spectroscopic sensing** of the **Leibniz Institute of Photonic Technology (IPHT)** offers a position for **Hiwi** and a topic for **Bachelor/Master thesis**.

Within the scope of this project **innovative spectroscopic systems based on novel optical fibers** and fiber arrays will be developed for highly sensitive and intrinsically specific Raman spectroscopy with **applications in environmental sciences and medical diagnosis**.

**Your Qualification:**
- Bachelor/Master student of Physics
- Photonics
- Medical Optics
- or related disciplines

**Your skills and interests:**
- Experimental and technical skills and interest in optical setups and instrumentation
- Knowledge in Raman spectroscopy and fiber optics would be helpful
- Interest in interdisciplinary work and scientific ambition

**We offer:**
- Attractive research environment with excellent instrumental equipment
- Possibility of interdisciplinary cooperation
- Young and dynamic team with interdisciplinary background


*Fast and highly sensitive fiber enhanced Raman spectroscopic monitoring of molecular $H_2$ and $CH_4$ for point-of-care diagnosis of malabsorption disorders in exhaled human breath*. **Analytical Chemistry** (2015), 87, 2, 982.


*New Ways to Guide Light*, **Science** (2009), 296, 276 / Photonic crystal fibres, **Nature** (2003), 424, 847.


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