<table>
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<tr>
<th>Peter the Great</th>
<th>Gottfried Wilhelm Leibniz</th>
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<tr>
<td>St. Petersburg Polytechnic University</td>
<td>Universität Hannover</td>
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<td><a href="http://eng.spbstu.ru">http://eng.spbstu.ru</a></td>
<td><a href="http://www.uni-hannover.de">www.uni-hannover.de</a></td>
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| Institute of Physics, Nanotechnology and Telecommunications | Institut für Quantenoptik und Laser Zentrum Hannover e.V. |

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<tr>
<th>Prof. Dr. Sci. Victor Petrov</th>
<th>Prof. Dr. Boris Chichkov</th>
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<tr>
<td>Deputy Director of the Institute of Physics, Nanotechnology and Telecommunications</td>
<td>Head of Nanotechnology Department</td>
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**BRIEF DESCRIPTION OF THE UNIT / RESEARCH GROUP**
The members of our research group are experts in the field of laser optics, optical holography, optical and fiber-optical interferometry and electro-optical materials. The main areas of our activities are:

- High-sensitive dynamic optical interferometers
- Fiber-optic polarization interferometers
- Optical sensors based on Bragg gratings
- Optical sensors based on different types of interferometers
- Optical sensors based on diffuse reflectance polarimetry
- Acousto-optical systems for 1- and 2-D patterns formation
  - Optical sensing for biomedical and industrial applications
  - Nanomechanics

**WHAT WE OFFER / PROJECT DESCRIPTION**
We offer applied research in co-operation with an industrial company on both the basis of contract research and public funding within the following fields of technology:

1. A high-precision optical sensor for measuring of alternative current without galvanic connection.
2. A high-precision optical sensor for measuring of high-voltage without galvanic connection.

**KEYWORDS**
Interferometry, fiber-optic sensors, electric field and current measurements.

**COLLABORATIONS SOUGHT**
Research & Development, Technical Co-operation, etc.

Cooperation Profile within "Strategic Partnership"