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University of Bergen Nano Physics Group Selected Activities

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Previous Status Quo

The University of Bergen Nano Physics Group is a small group, exciting since 2005. It is involved in a number of projects.

New Insights

The group collaborates both with other academic groups, and with industry.

Project Details

Active projects in the Group include but are not limited to:

- Neutral helium microscope for imaging non conducting samples.
- Fabrication of free standing zone plates and atom sieves for focusing a neutral helium beam.
- Fabrication and characterization of an all metal solar cell based on localized surface plasmon resonance of metal nano particles.
- Fabricating and characterizing oilo phobic sapphire for anti fouling in subsea applications.
- Textile identification, assisting in the investigations of archeological findings.

Challenges

The laboratory is quite small, only 70 m², and is specialized in manufacturing based on electron beam lithography, and is well suited for student training. Some specializes instruments are occasionally missed.

Next Steps

By collaborating with other labs, we can provide student training in the lab, and in return have access to a wider range of instruments at other institutions.



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