



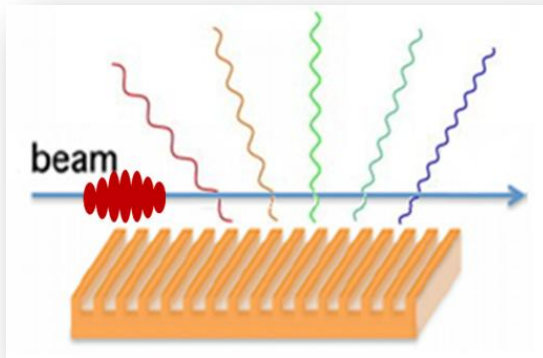
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# DARIA SERGEEVA

**PhD:** Coherent effects in polarization radiation from relativistic bunches  
*(about to be finished)*

## Polarization radiation from bunches:

- Diffraction Radiation
- Smith-Purcell Radiation
- Cherenkov Radiation
- Transition Radiation
- Parametric X-ray Radiation



## Motivation:

- Developing schemes for non-invasive beam diagnostics
- Optimization of detectors based on Transition Radiation  
*(in collaboration with CERN)*

