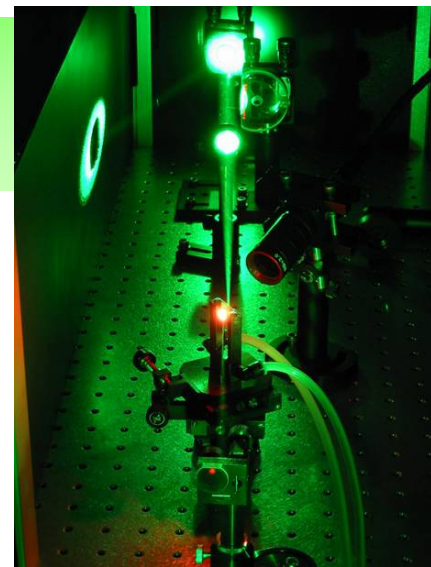


LaserFest



- ❖ Funds are available for public presentations:
 - **He-Ne** laser construction (public demo).
 - **Fiber-optics** with water (public demo).
 - **Pop-a-ballon** laser blaster (public demo).
 - Laser **spy** gear (public demo).

- ❖ We need help with construction and presentations of demos.

- ❖ Useful hands-on experience for future teachers.

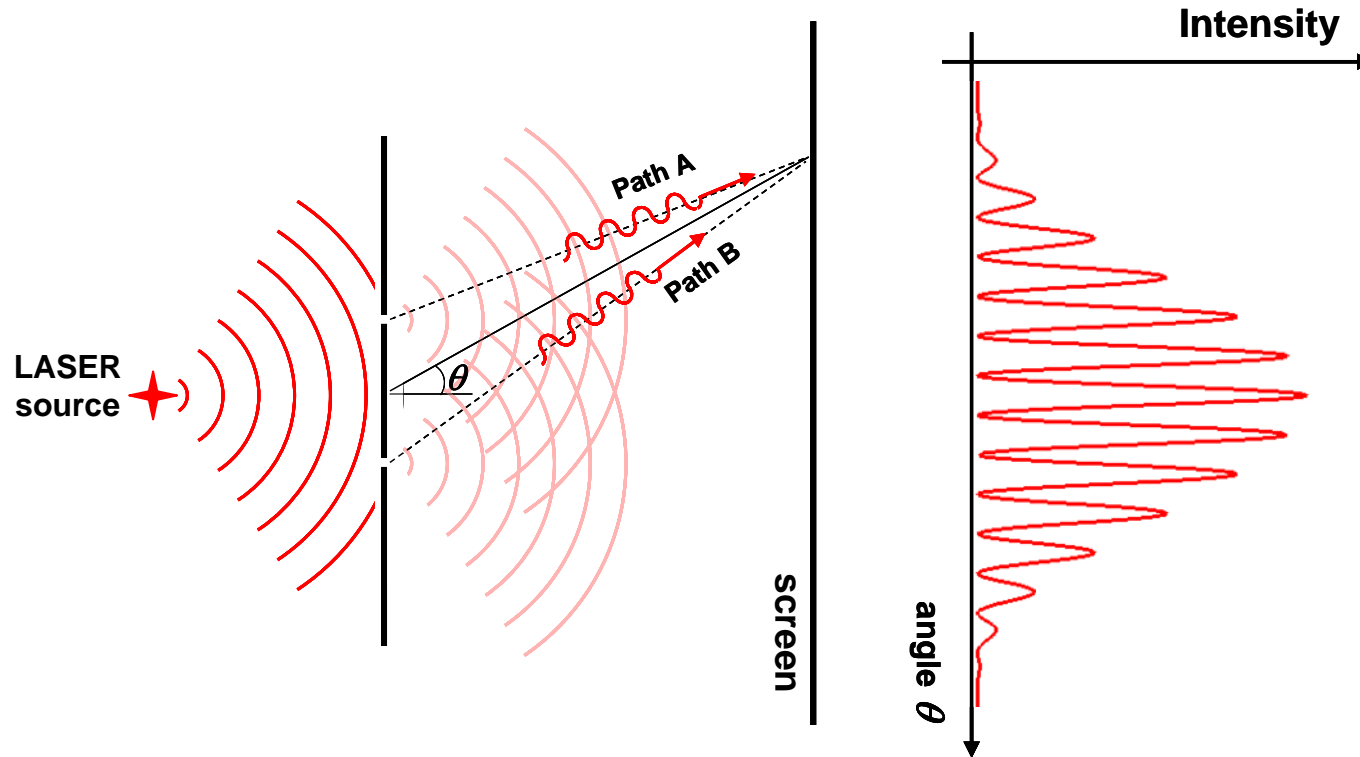
Program is run by Profs. Novikova, Mikhailov, Lukaszew, Schniepp, and Aubin.

1st Order Coherence

1. What's **coherence**?
2. **Spatial Coherence.**
3. **Temporal Coherence.**
 - Coherence length.
 - Bandwidth of an optical source.
 - Mode-locked lasers.
4. 1st order **correlation function.**

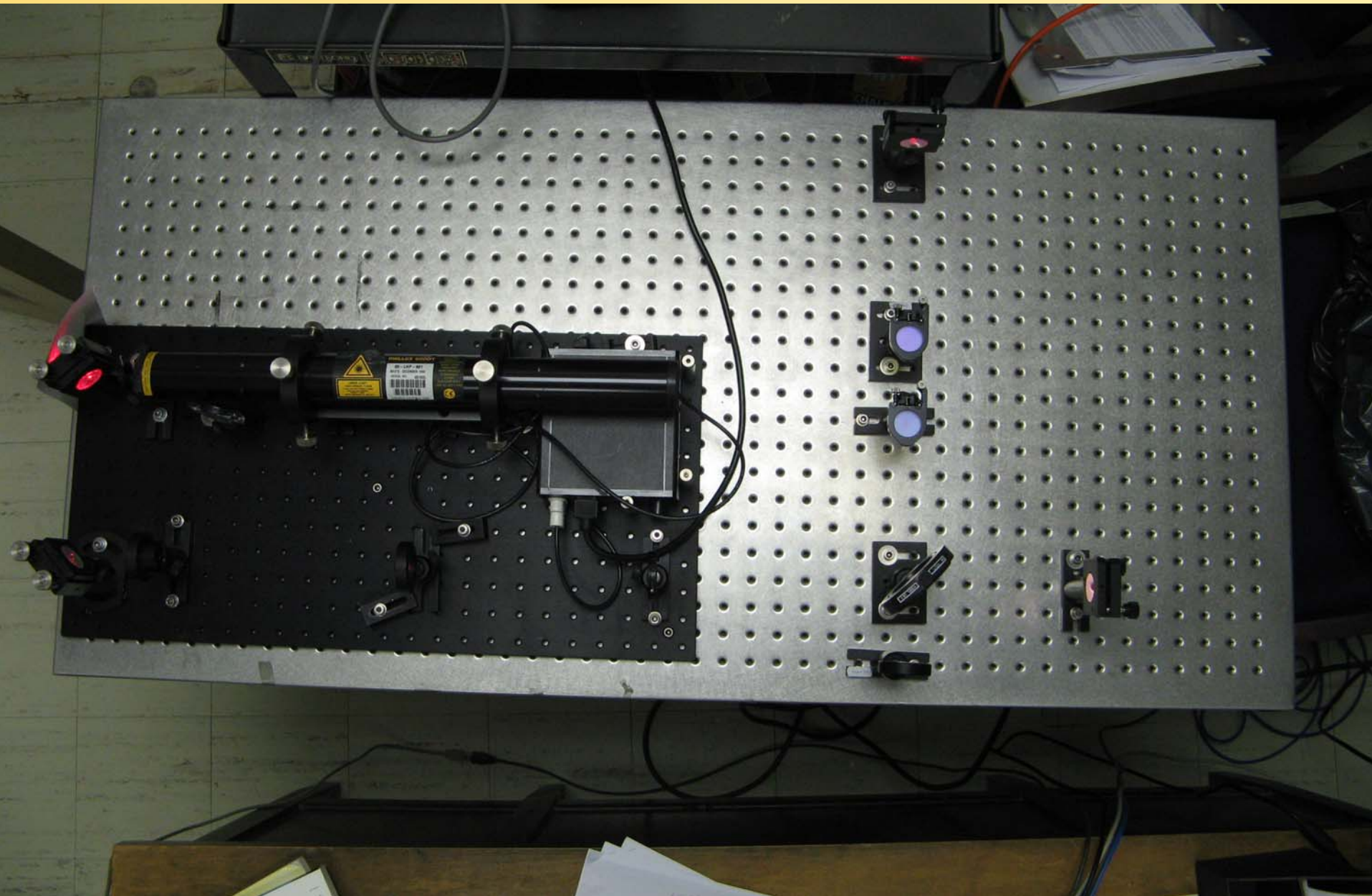
Spatial Coherence

Young's Double Slit Interferometer

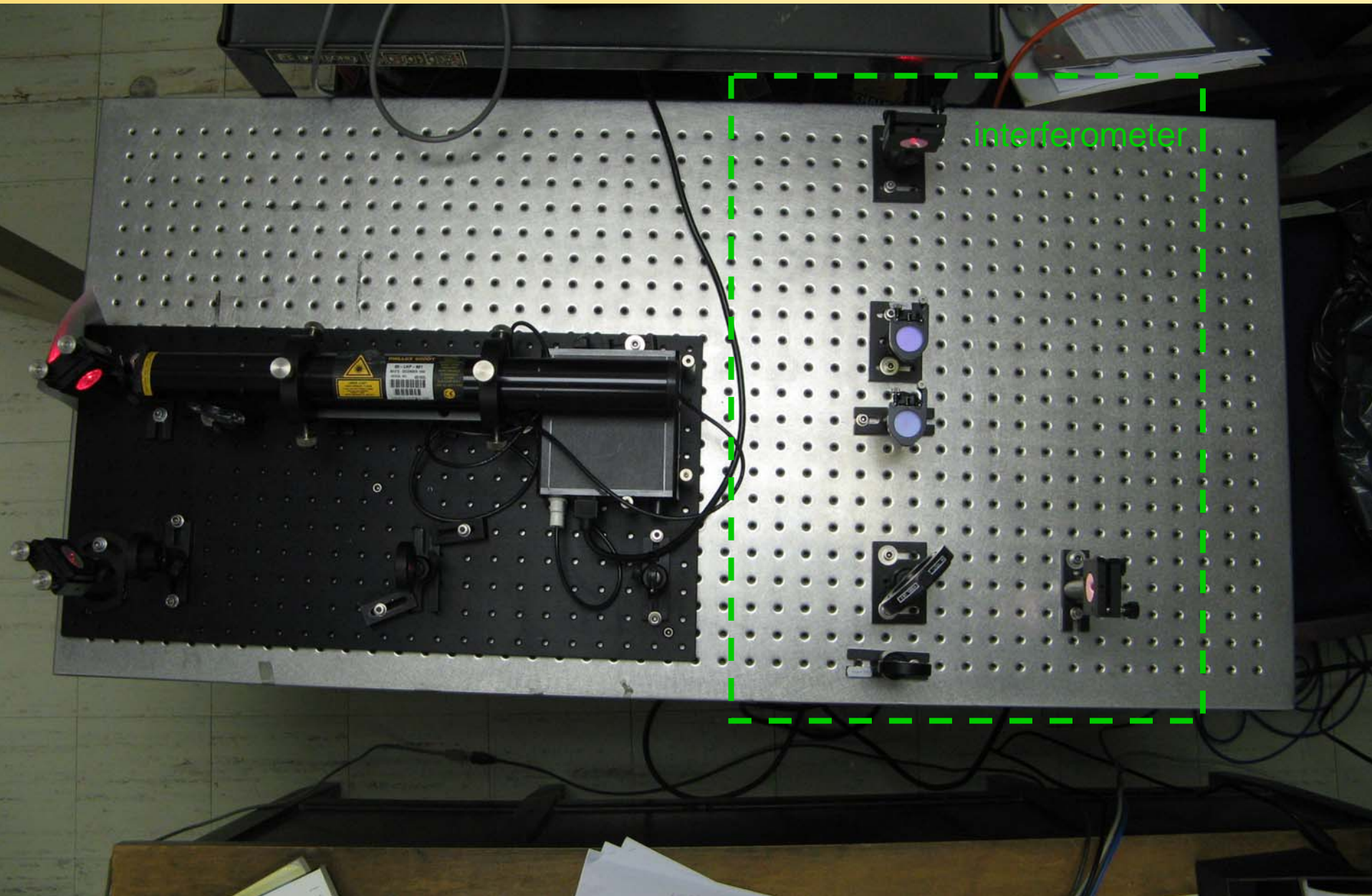


Light from different regions of wavefront interfere.

Michelson Interferometer



Michelson Interferometer



Michelson Interferometer

