**Tentative program forTelluride meeting:**

**PHOTOPHYSICS OF BIOMOLECULAR IONS**

**SUNDAY**

**Welcome reception**

**Practicality: Beamers, whiteboards and other standard equipment is available.
Format: Times indicated here are guidelines. In particular, there will not be any chairpersons. Trespass into the lunch break at your own peril. There will be a timer to keep you on track.
Presentations are 30 minutes +20 minutes discussion. Discussions may (will) arise during the talk.**

**MONDAY**

09.00 – 09.10 Klavs Hansen: **Welcome and Introduction**

**Ion mobility**

09.10-10.00 Perdita Barran: Ion mobility mass spectrometry with photons (gas phase)

**Photophysics of DNA**

10.00-10.50 Caroline Dessent: Nucleobase-anion clusters: Anionic "charge tags" of nucleobase photophysics

10.50-11.40 Spiridoula Matsika: Excited state dynamics of oligonucleotides and other biomolecules

11.40-13.10  **Lunch**

**Techniques I**

13.10-14.00 Evan Bieske: A background to photo-isomerization action spectroscopy

14.00-14.50 Anouk Rijs: Far-IR action spectroscopy to probe hydrogen bond fingerprints: Is it worth the trouble?

14.50-15.40 Greg Scholes: Probing ultrafast reaction dynamics using wave packet spectroscopy

**Techniques II**

15.40-16.30 Thorsten Hansen: Overview of theory for excited states

**TUESDAY**

09.00-09.50 Klavs Hansen: Pitfalls in traps: Understanding the thermodynamics of beam decay

**Protein biochromophores**

09.50-10.40 Helen Fielding: Photoelectron velocity map imaging studies of GFP and PYP chromophore anions

10.40 – 11.30 Lars H. Andersen: Time-resolved action spectroscopy

**The photophysics of photosynthesis**

11.30-12.20 Greg Scholes: Vibronic coherence in photosynthetic light harvesting

12.20-13.50 **Lunch**

13.50-14.40 Thorsten Hansen: Simulations of light-harvesting systems

14.40-15.30 Steen Brøndsted: The intrinsic color of chlorophyll

15.30-16.20 Rebecca Jockusch: Luminescence and Action Spectroscopy of Isolated Chlorophylls

**WEDNESDAY**

**Biomolecular ions**

09.00-09.50 Caroline Dessent: Mapping the flavin chromophore as a function of protonation and oxidation state

09.50-10.40 Anouk Rijs: How to probe far-IR and THz signatures of biomolecular ions?

**Photodissociation of biomolecular ions**

10.40-12.00 Mathias Weber: UV photofragmentation of nucleotides

12.00-13.30 **Lunch**

13.30-14.20 Steen Brøndsted: Energy flow in photoexcited peptide cations

14.20-15.10 Lars H. Andersen: Excited state lifetimes of biochromophore ions

 **Photophysics of DNA**15:10-16:00 Bern Kohler: Nucleic acid photophysics as a legacy of chemical evolution on the early Earth

**Ion mobility spectrometry**

16.00-16.50 Perdita Barran: Ion mobility mass spectrometry with photons (solution)

**THURSDAY**

**Protein biochromophore ions II**

09.00-09.50 Helen Fielding: Photoelectron spectroscopy studies of luciferin and flavin anions

09.50-10.40 Evan Bieske: Photoisomerization of retinal protonated Schiff base and the GFP chromophore anion

**Intrinsic molecular processes**

10.40-11.30 Oded Heber: Molecular relaxation processes - realized in small carbon clusters

11.30-12.20 Klavs Hansen: Does RRKM work for biological molecules?

12.20 – 13.50 **Lunch**

13.50-14.40 Rebecca Jockusch: FRET experiments in the gas phase

**Chemical modifications of DNA**

14.40-15.30 Bern Kohler: Photoinduced proton-coupled electron transfer in double-stranded DNA

15.30-16.20 Spiridoula Matsika: Interaction of nucleobases with low energy electrons

**FRIDAY**

**Round-table discussion**

**Explore the mountains (Walk and talk…)**