

Workshop on Realtime Astroparticle Physics





„Down-
town“

University
main
building

Hotel
Mozart

Hotel
Kurfürst-
enhof

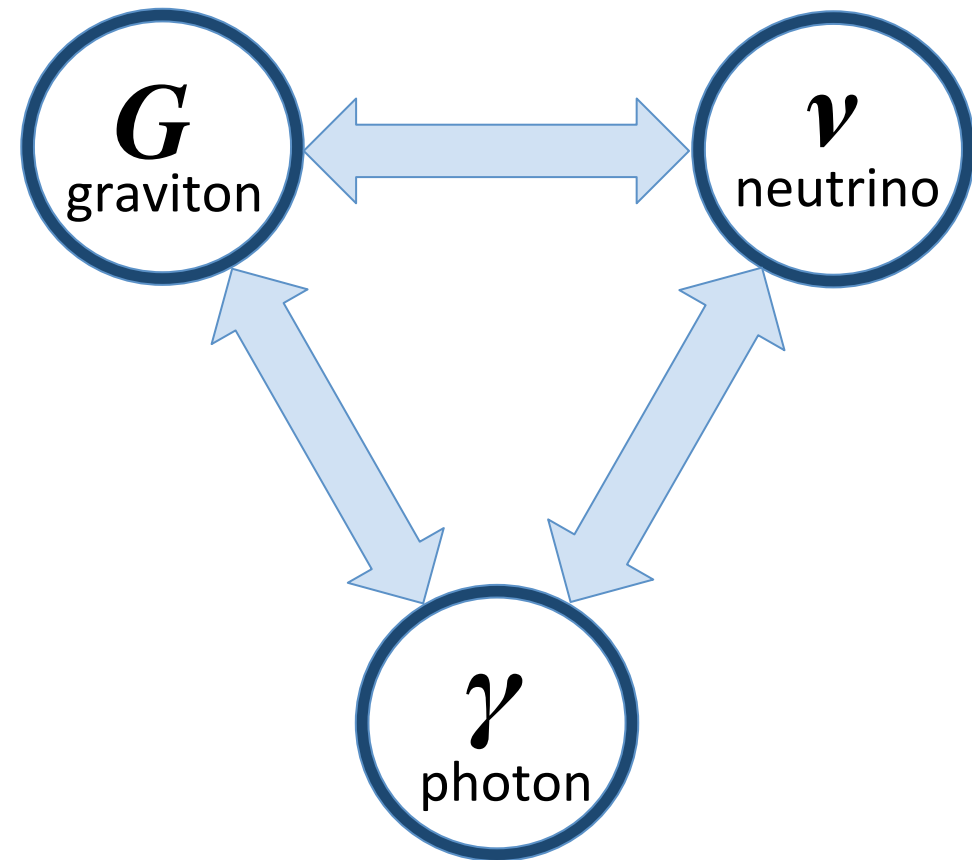
The
venue

Tuesday 8 PM:
Conference dinner
@ Meyer's
Clemens-Auguststr
51

...bring together experts from different fields to discuss opportunities arising from (nearly) simultaneous observations

Focus on...

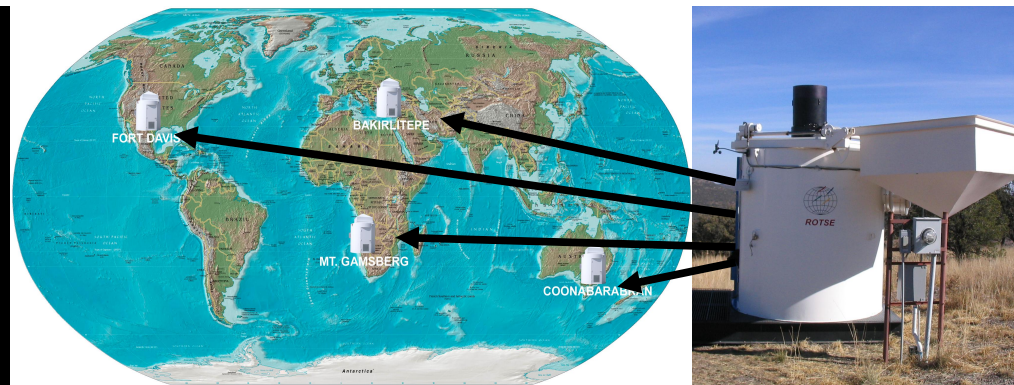
- Opportunities
- Techniques
- Infrastructure
- Theory



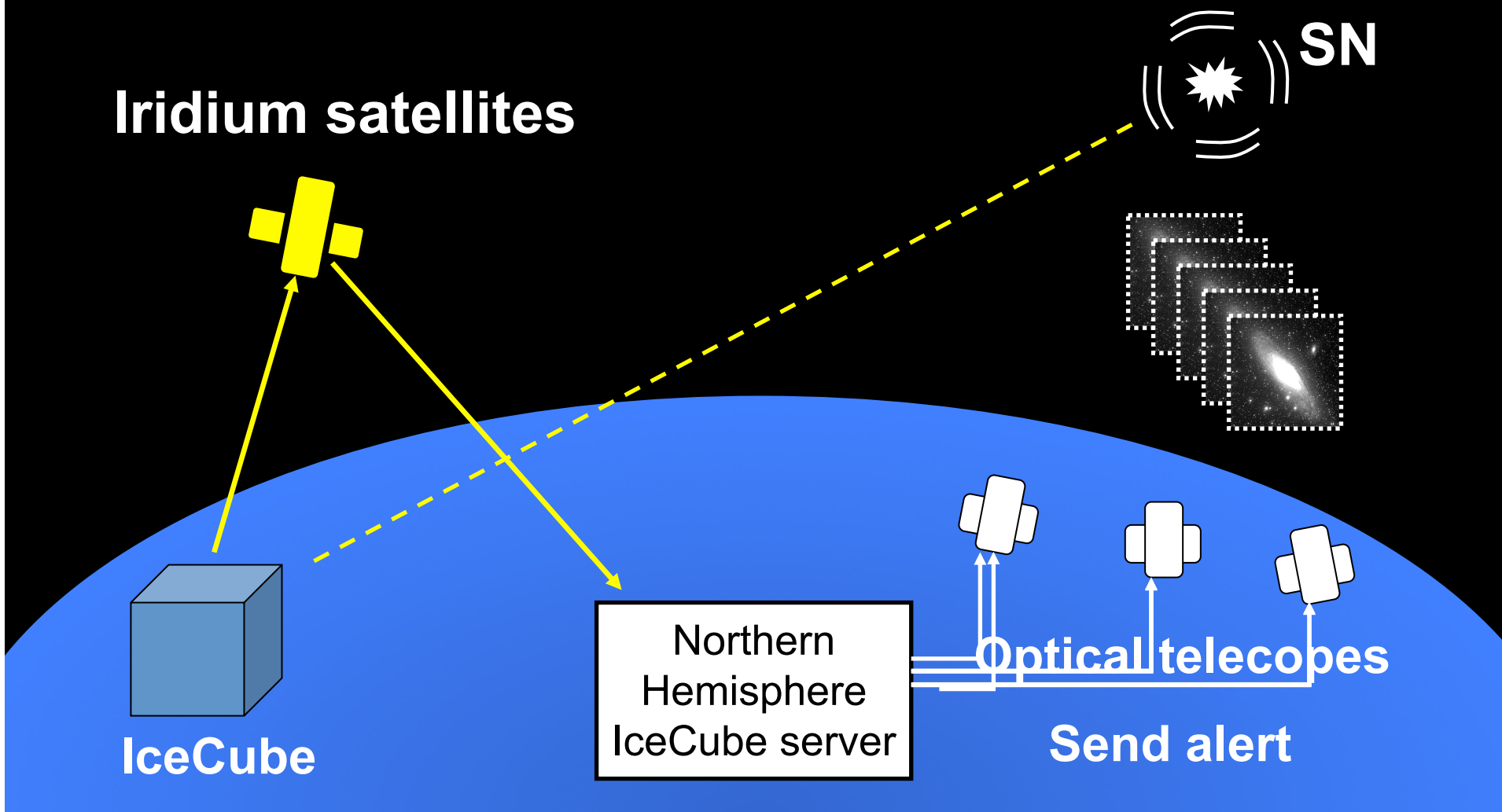
Some general remarks:

- Discussion highly encouraged!
- For 30-35 min talks, reserve >5 min for discussion
- For 45 min talks, reserve >10 min for discussion
- Moderated discussion on Tuesday afternoon & Wednesday before lunch
- Very mixed audience – prepare talk accordingly

Optical Neutrino Follow-up with IceCube & ROTSE



Iridium satellites



IceCube

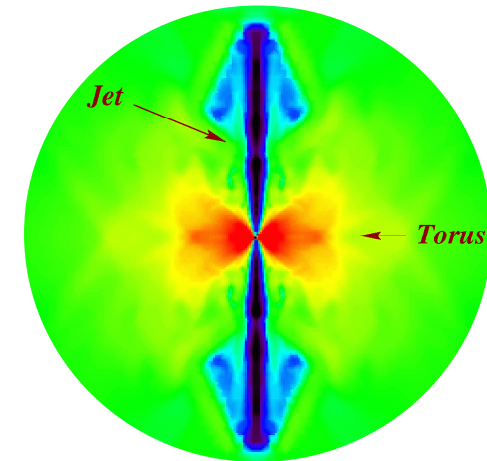
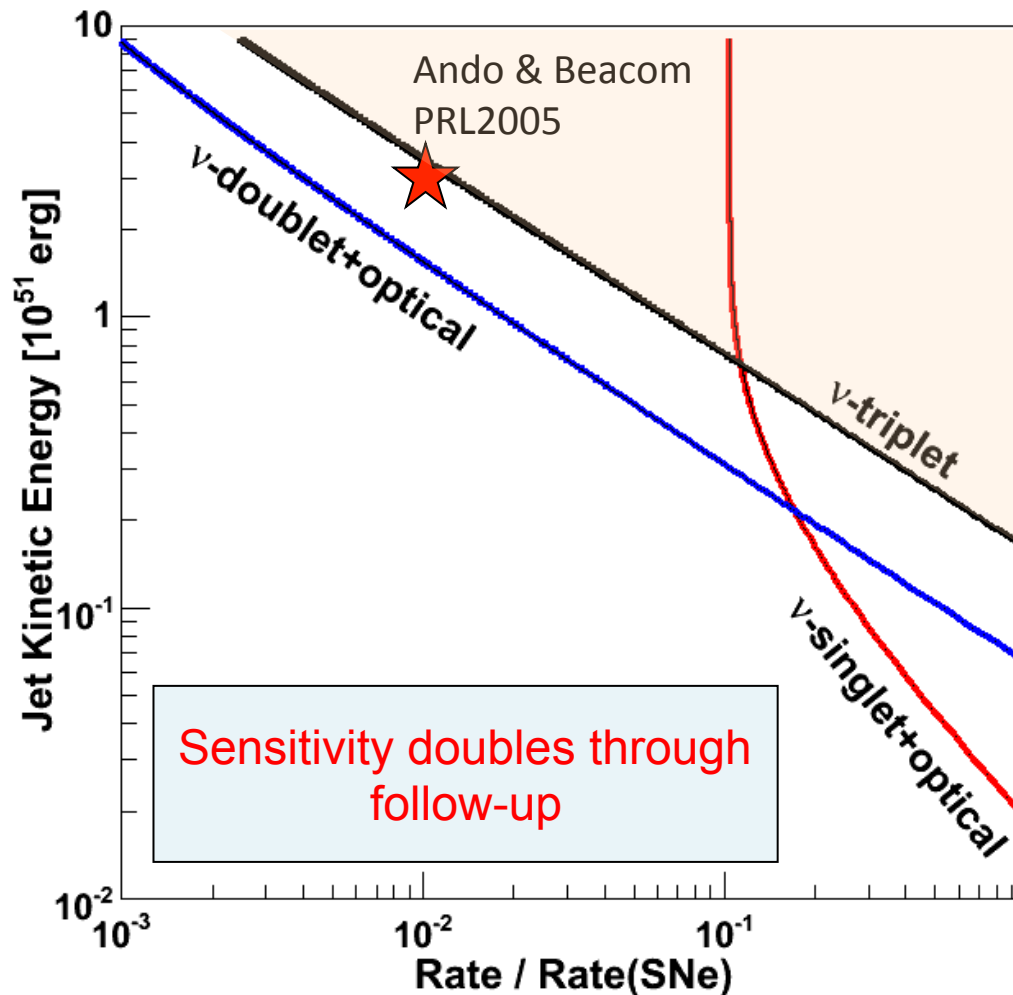
Northern Hemisphere IceCube server

Optical telescopes

Send alert

SN

Example: High energy neutrinos from Supernovae
- triggering on neutrino multipletts



SNe	GW	Neutrinos	Radio	Optical	X-rays	γ-rays
GW						
Neutrinos						
Radio						
Optical		X				
X-rays						
γ-rays						

Requirements for effective follow-up: Large FoV ($\sim \text{deg}^2$), $>50 \text{ cm}^2$ aperture, good coverage