

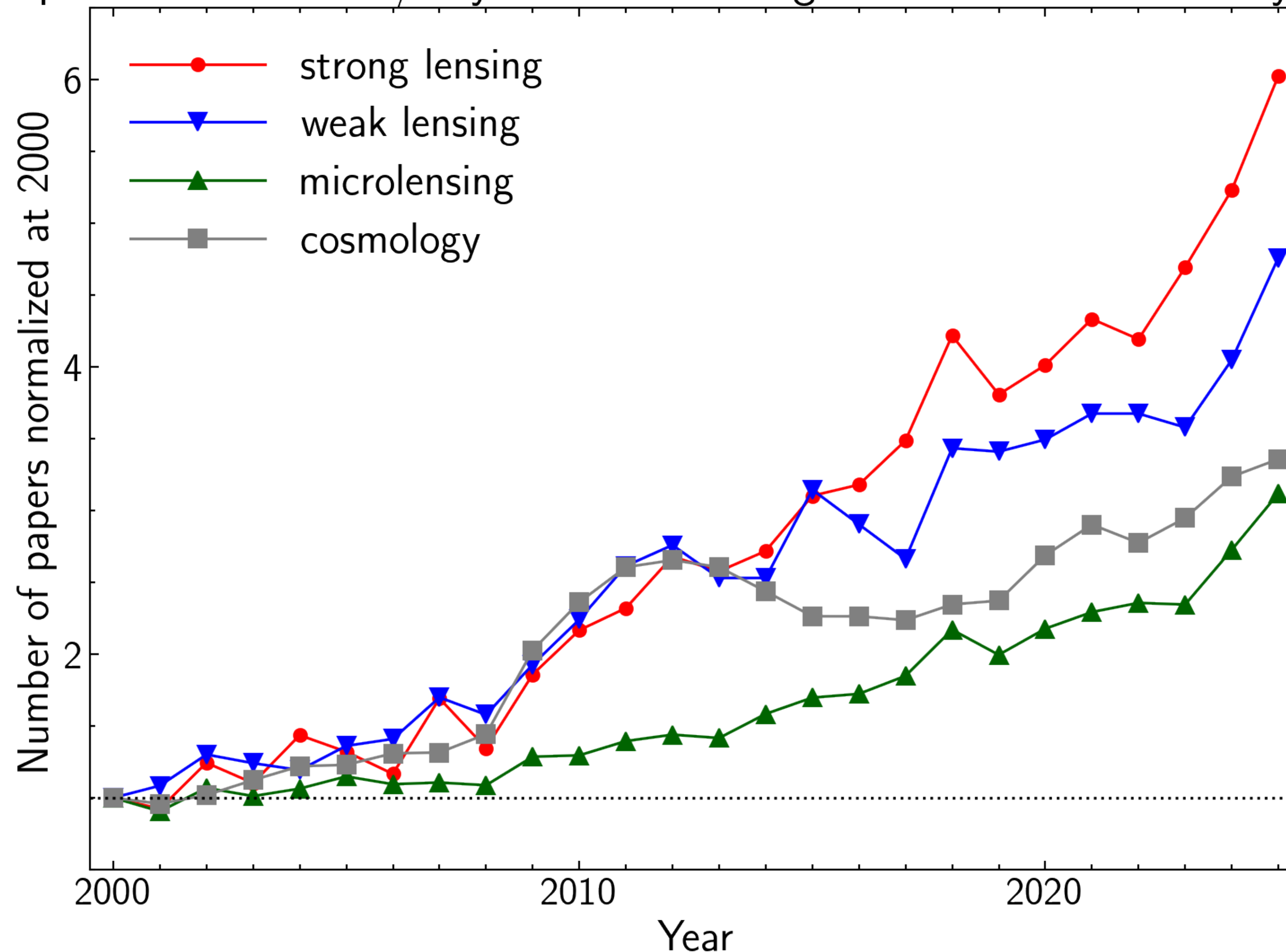
Workshop Summary

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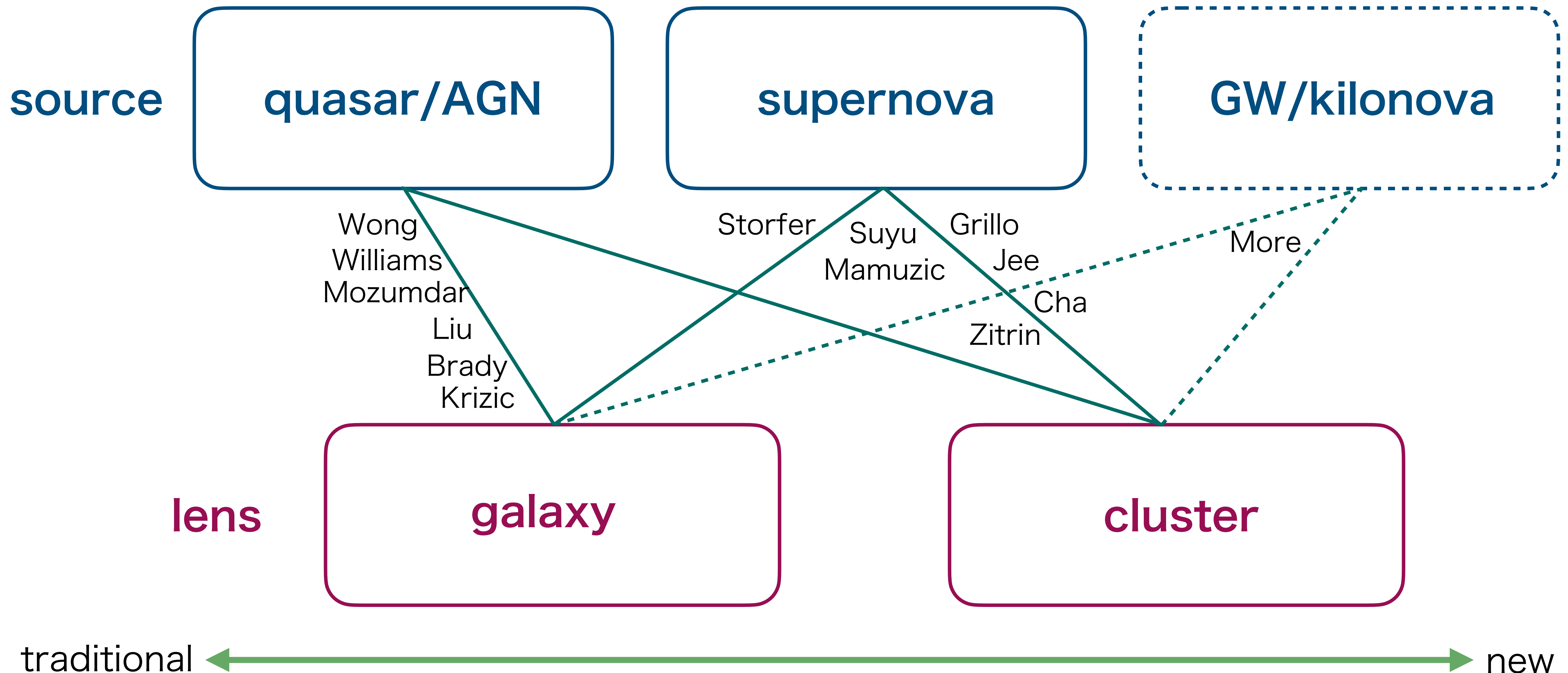


Strong lensing is getting more and more popular!

Papers with Abstract/Keywords containing these words searched by ADS



Time-delay cosmography: best approach?



Major challenge: lens potential uncertainty

We have to overcome many degeneracies!

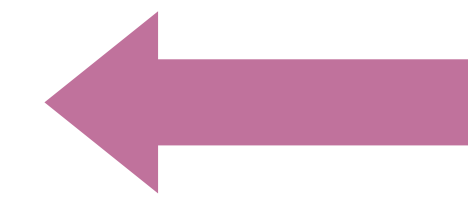
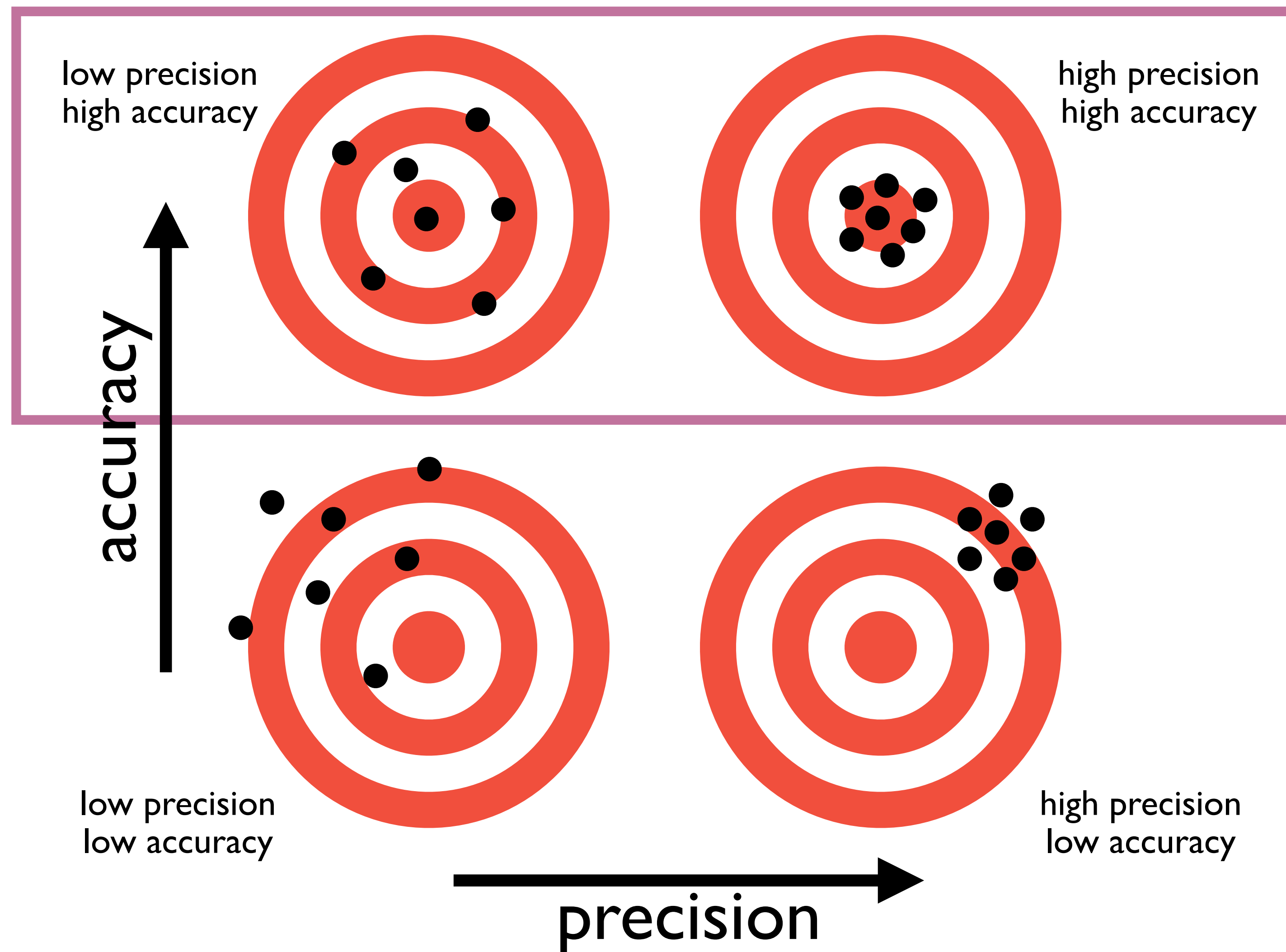
- H_0 –slope–internal MSD–external MSD–ellipticity–boxiness
–external shear–environment–DM offset–smoothness
–source size–velocity anisotropy–triaxiality degeneracy

Major challenge: lens potential uncertainty

How to overcome?

- kinematics (lens and source) Knabel Wang Sheu
- double source plane ($\rightarrow \Omega_m, w, \dots$) Urcelay Johnson
- weak lensing Scofield Fujikawa
- lensed arc He Acebron Melo-Carneiro
- exotic images Meena
- LOS modeling Queirolo
- statistical approach/selection effect Sonnenfeld

Accuracy versus precision



our goal is
accurate
time-delay
cosmography!

My personal take on time-delay cosmography

- Mock challenges are really crucial, need more demonstrations on how well we can really recover input H_0 for realistic mocks
- The impact of the uncertainty of inner density profiles (core, double power-law, $\dots$) should be more thoroughly explored
- Eventually we will need to pay more attention to selection effects

Cosmology is not just H_0 (Ω_m , w , $\dots$)

Particle nature of dark matter

Lim Chow Lai Alfred Iwasaki

Neutrino mass

Saito

Early Universe physics

Jiang Hirayama

How strong lensing can contribute?

Acknowledgements

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