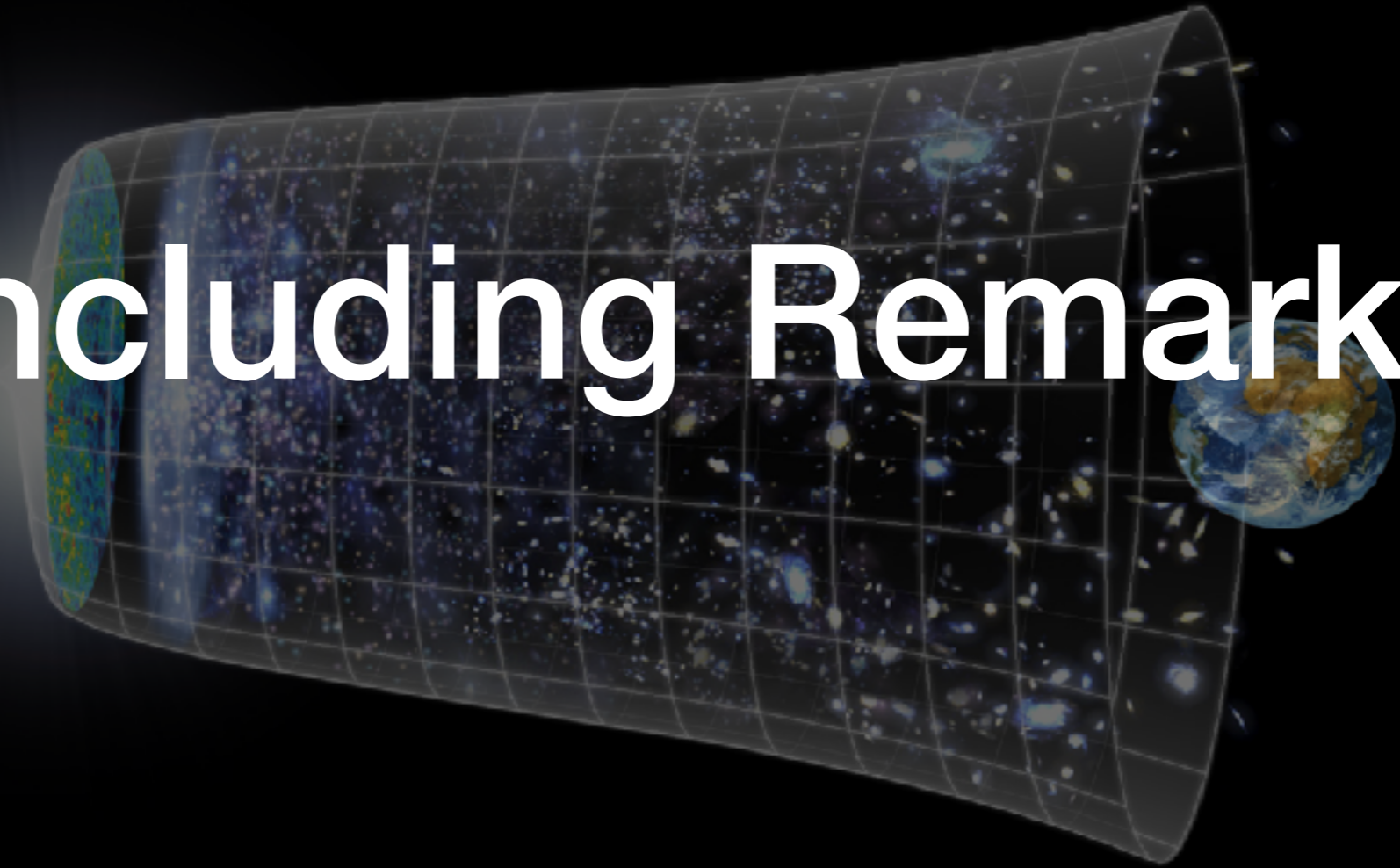


Concluding Remark



Lots of fun!



3 pillars of science (theory)

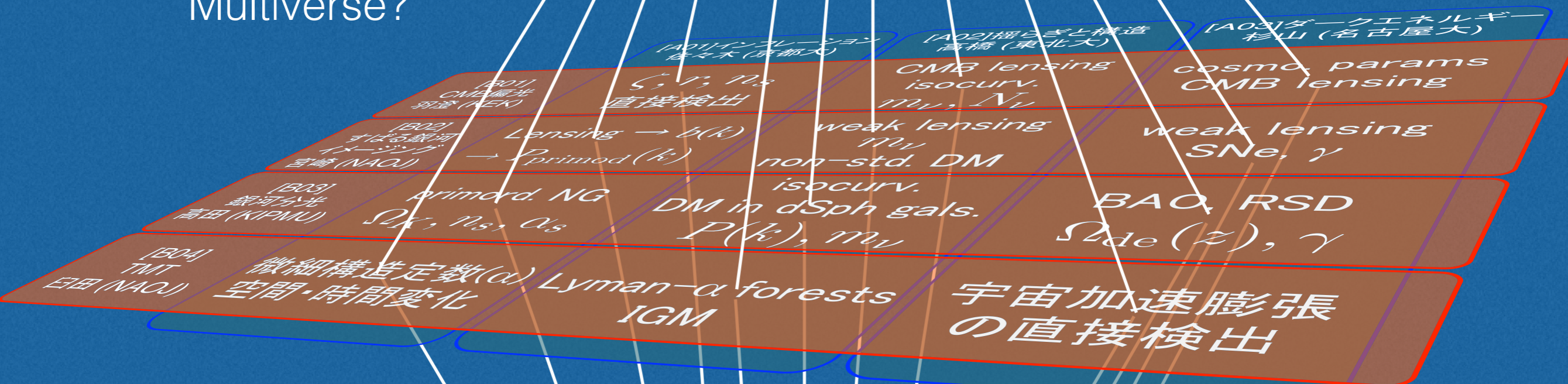
4 approaches (expt, obs)

	[A01] Inflation Sasaki (Kyoto)	[A02] fluent. & struct. Takahashi (Tohoku)	[A03] Dark Energy Sugiyama (Nagoya)
[B01] CMB polariz. Hazumi (KEK)	ζ, r, n_s direct evidence	CMB lensing isocurv. m_ν, N_ν	cosmo. params CMB lensing
[B02] Subaru galaxy imaging Miyazaki(NAOJ)	Lensing $\rightarrow b(k)$ $\rightarrow P_{\text{primod}}(k)$	weak lensing m_ν non-std. DM	weak lensing SNe, γ
[B03] galaxy spectroscopy Takada(KIPMU)	primord. NG Ω_K, n_s, α_s	isocurv. DM in dSph gals. $P(k), m_\nu$	BAO, RSD $\Omega_{\text{de}}(z), \gamma$
[B04] TMT Usuda (NAOJ)	QED coupling (α) space time var.	Lyman- α forests IGM	direct detection of acceleration

important observables at each intersection

C01: ultimate theory Ooguri(Caltech)

Universe before inflation?
 Birth of time?
 quantum gravity? string?
 other dims? end of Universe?
 Multiverse?



X00: organization
 Murayama (IPMU)

D01: ultimate analysis Komatsu(MPA)

ideas



- **write papers with other groups!**
- modified gravity A01,03:
 - testability using Web App by D01
 - connection to string theory C01
 - theory space and HSC constraint: B02
- direct measurement of acceleration B04&D01
 - study of systematics, e.g., motion of solar system
- time-dependent physical constants A01,03,C01,D01
- software tools and analysis methods on CMB: B01&D01
- multi-messenger:
 - gravitational wave, neutrinos, cosmic rays
- papers on instrumentation also needed
- “*unexpected*”

near term

- public lectures all around Japan
- schools for students & postdocs with career development workshops
- press conference on HSC SSP results Feb 27
- unblinding HSC data on cosmic shear!
- Hope for
 - LiteBIRD approval
 - TMT

**Big thanks to
local organizers!**





**Keep up the good
work and have fun!**