## Active Galactic Nucleus Jets

in the Event Horizon O Telescope Era

Closing Remarks


Kenji TOMA (Tohoku U)


Gamma-rays/X-rays
Bondi radius?

## EHT 2017 \& next

- Jet driving mechanism

$$
L_{\mathrm{BZ}}=L_{\mathrm{BZ}}\left(\Omega_{\mathrm{H}}, B_{\mathrm{H}}\right)
$$

- BH spin, gravity theories
- Polarization/time domain
- GLT (350 GHz) \& more stations
- Space VLBI
- Sims: $\mathrm{R}_{\text {high }}$, density floor

Tazaki, Akiyama
Mizuno, Kawashima

## EAVN \& next

- Jet kinematics
- Width profiles
- Acceleration mechanism
- Core shift:

B field strength

- Energetics

Park, Nakahara, Jung, Niinuma, Nakamura, Kino, Tanaka,
Ohmura

- Jet, disk, magnetosphere?
- Fe lines
- X-ray interferometer

Mazin, Chamani, Hayashida

## Blazars

- EHT view, kinematics
- Polarization

Radio Galaxies

- LLAGN, NLSy1
- Two key " 3 " S Ohsuga,
- Population


## Plasma microphysics

- $\mathrm{T}_{\mathrm{e}} / \mathrm{T}_{\mathrm{p}}$
- Non-thermal p/neutrinos
- Jet MHD breakdown

Kawazura, Kimura, Kisaka

## One point <br> $$
n_{\text {app }}=n\left(1-\beta \cos \theta_{\mathrm{v}}\right)
$$



- Number of faster blobs looks smaller

Park, Hada, Kino et al. 2019



Many thanks for your participations, contributions \& discussions!
Let us keep in touch \& make our community more active.

We will prepare a next BH/jet workshop.

