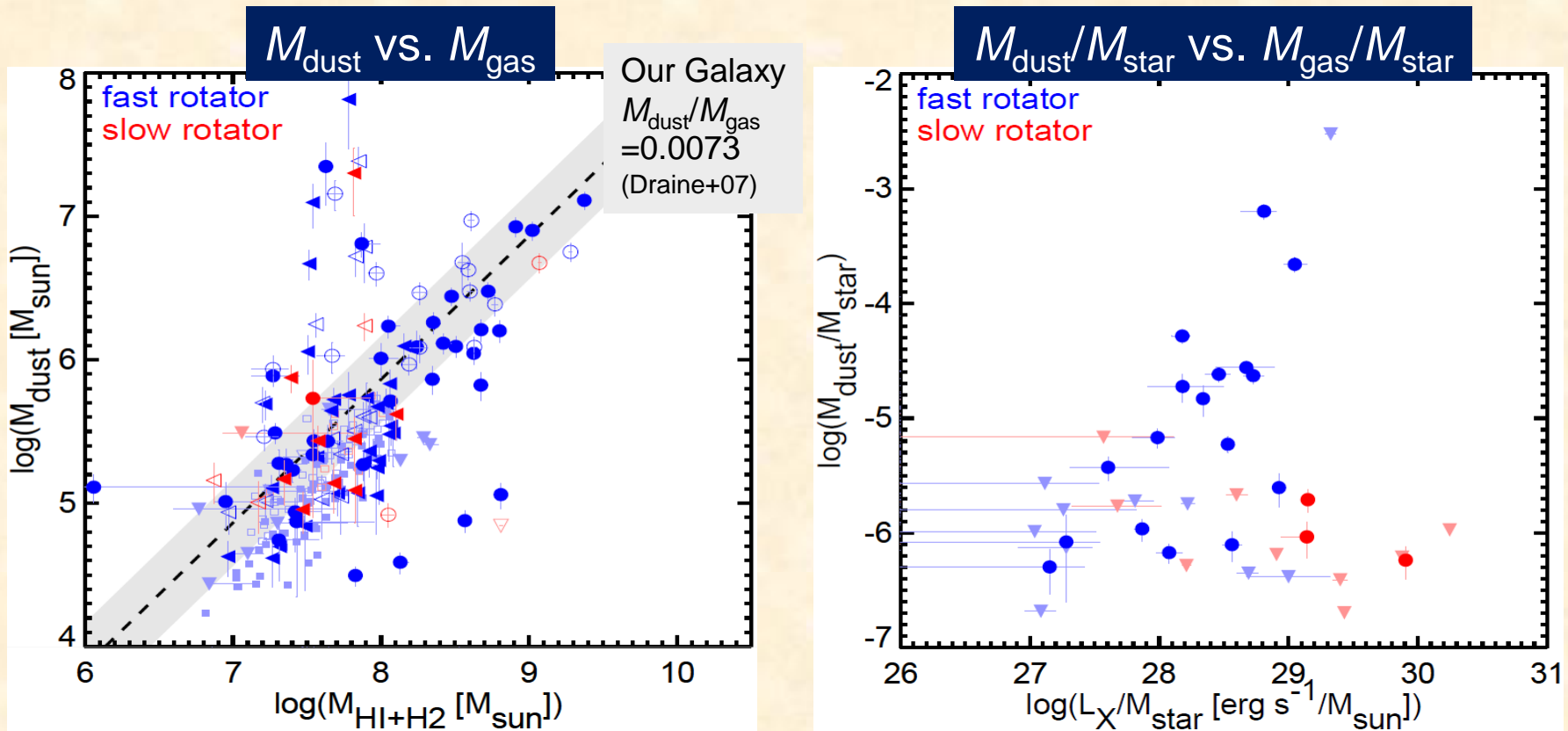


# A systematic study of dust and star formation in early-type galaxies with AKARI

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- Dust is detected in  $\sim 50\%$  of 260 ATLAS<sup>3D</sup> early-type galaxies (ETGs)
- ETGs have  $M_{\text{dust}}/M_{\text{gas}}$  similar to late-type galaxies
- $M_{\text{dust}}$  and  $L_{\text{X}}$  are correlated in fast-rotating ETGs