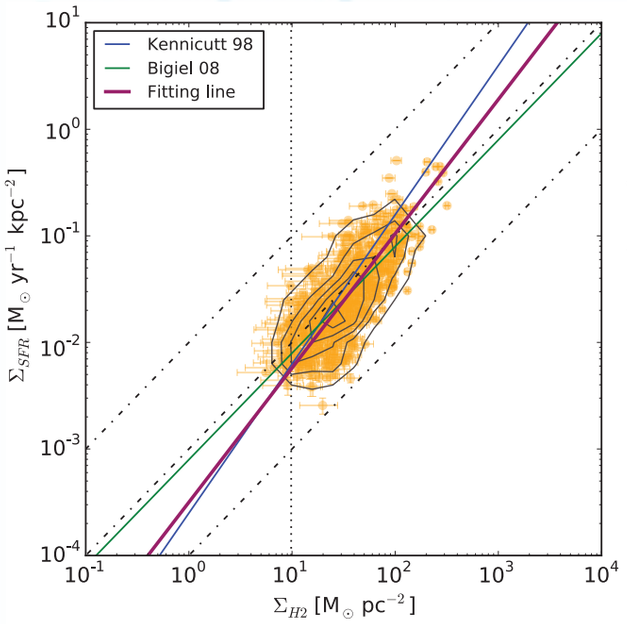
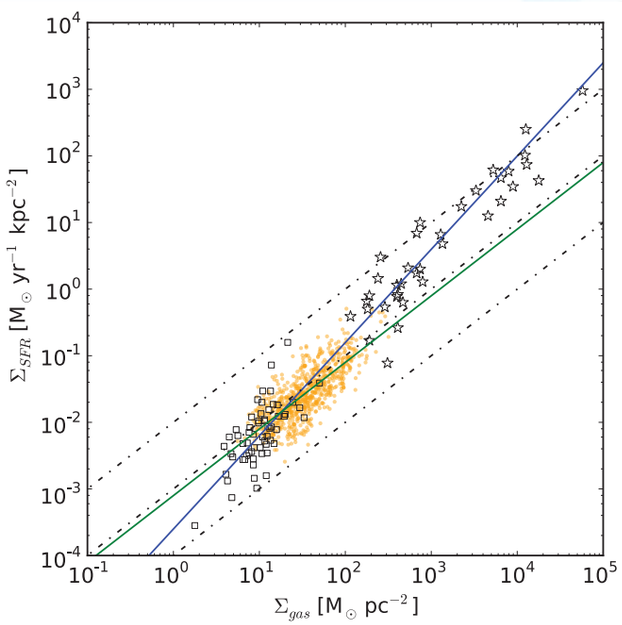
The Resolved Kennicutt-Schmidt Law in Nearby Galaxies

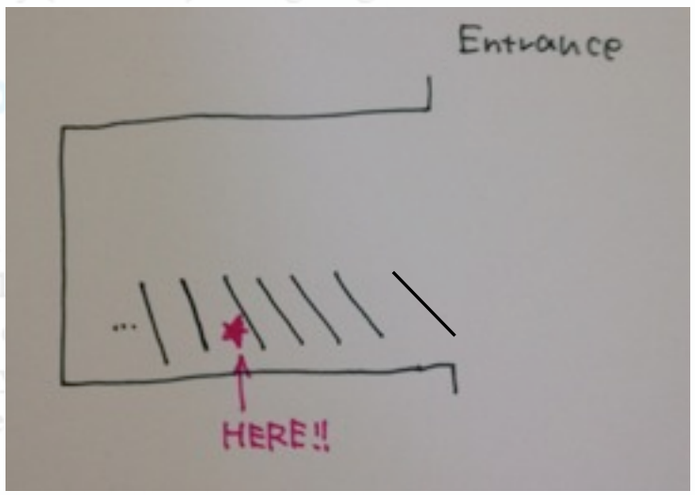
Rieko Momose[1,2,3] (momo@icrr.u-tokyo.ac.jp)

Jin Koda[4], Robert C. Kennicutt, Jr[5], Fumi Egusa[6], Sachiko K. Okumura[3,7], Daniela Calzetti[8], Guilin Liu[8,9], Jennifer Donovan Meyer[4], Nick Z. Scoville[10], Tsuyoshi Sawada[3], Nario Kuno[3]

[1]Institute for Cosmic Ray Research, University of Tokyo, [2]University of Tokyo, [3]NAOJ, [4]Stony Brook University, [5] University of Cambridge, [6]JAXA, [7]Japan Women' s University, [8]University of Massachusetts, [9]Johns Hopkins University, [10]California Institute of Technology







- Studying the K-S law
  - at 750/500 pc scale
  - using CO(J=1-0)
  - also examined DIG subtractions

- Obtained super-linear slope (N = 1.3-1.8)
- Discussing
  - the difference to previous studies
  - star formation process