

Grism Reionization And Cosmic Evolution(**GRACE**)



PI: Sangeeta Malhotra, co-PIs: James Rhoads, Greg Rudnick

Cosmic Dawn: Sambit Giri, Erik Zackrisson, Aaron Yung, Sangeeta Kumar, Tri Astraatmadja, Sangeeta Malhotra, James Rhoads, Isak Wold, Crystal Martin, Masami Ouchi, Akio Inoue, Yuichi Harikane, Jacqueline Hewitt, Kai-Feng Chen, Anne Hutter, Sambit Giri, Erik Zackrisson.

Cosmic Noon: Gregory Rudnick, Jasleen Matharu, Peter Watson, Andrew Newman, Ivelina Momcheva, Michael Cooper, Rose Finn, Pascale Jablonka, Nima Chartab, Ruari Mackenzie, Ayan Acharyya, Ben Forrest, Benedetta Vulcani, A.A.Khostovan, Vicente Estrada-Carpenter, Gwen Rudie, Devontae Baxter, Gillian Wilson, Yannick Bahé, Allison Noble.

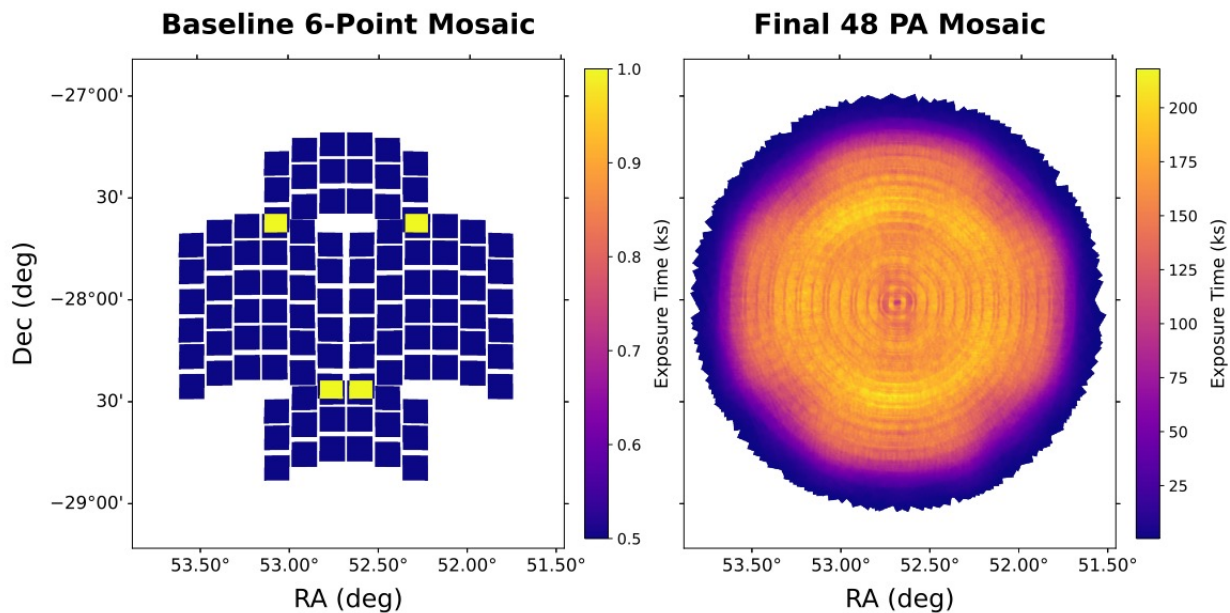
Active Galactic Nuclei: Xiaohui Fan, Wei Leong Tee, Mainak Singha, Jinyi Yang, Feige Wang, Masafusa Onoue, Anton Koekemoer, Yichen Liu, Rolf Jansen, Ruari Mackenzie.

Cosmology: Jeff Newman, Tim Eifler, Elizabeth Krause, Erik Huff.

Stars and Brown Dwarfs: Adam Burgasser, Rae Holcomb.

Deep learning and object classification: T. Budavari, M. Singha, Pie Jun Huang

GRACE Observations



Grism to depth

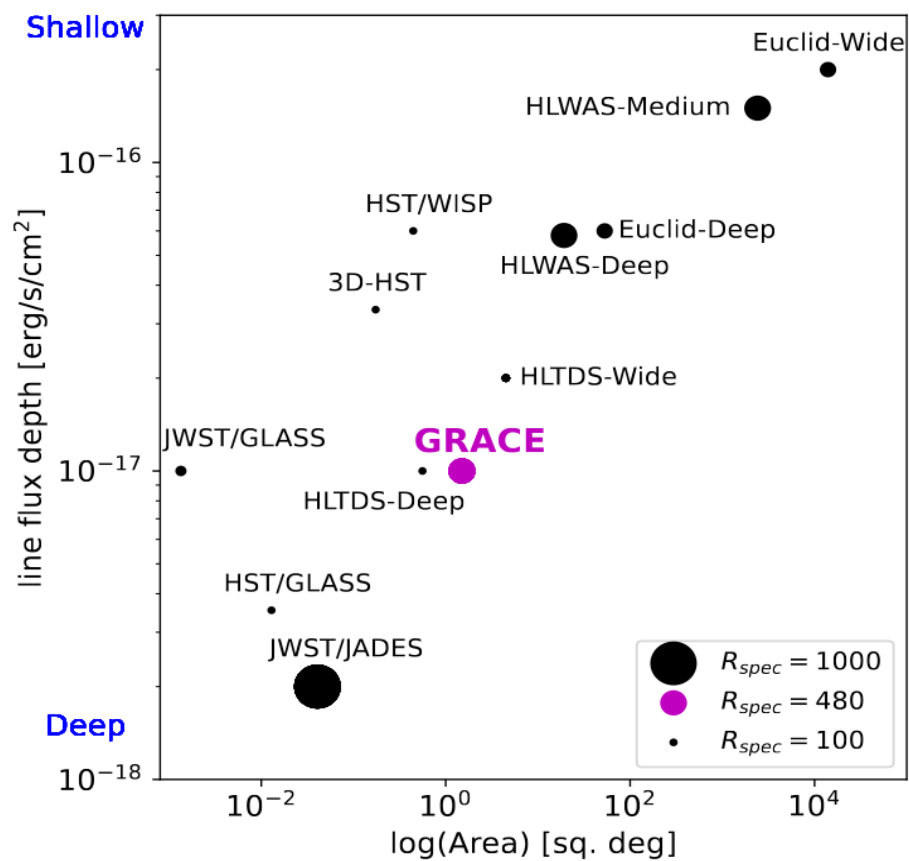
$1e-17$ ergs/cm²/s

+ Imaging with YJH & F184

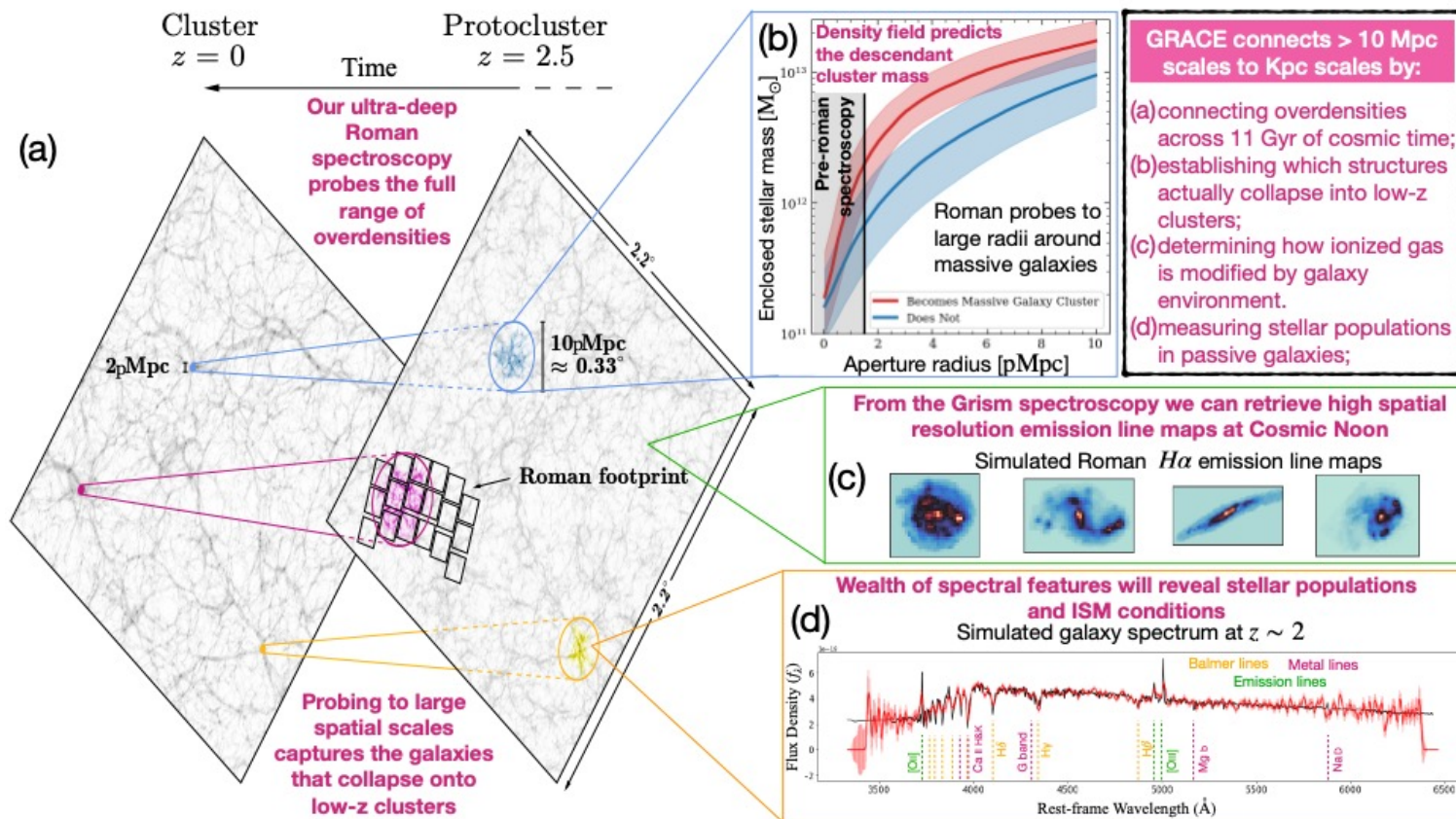
Over 1.5 sq-degrees in
CDF-S

~1 sq-degrees at half the
depth.

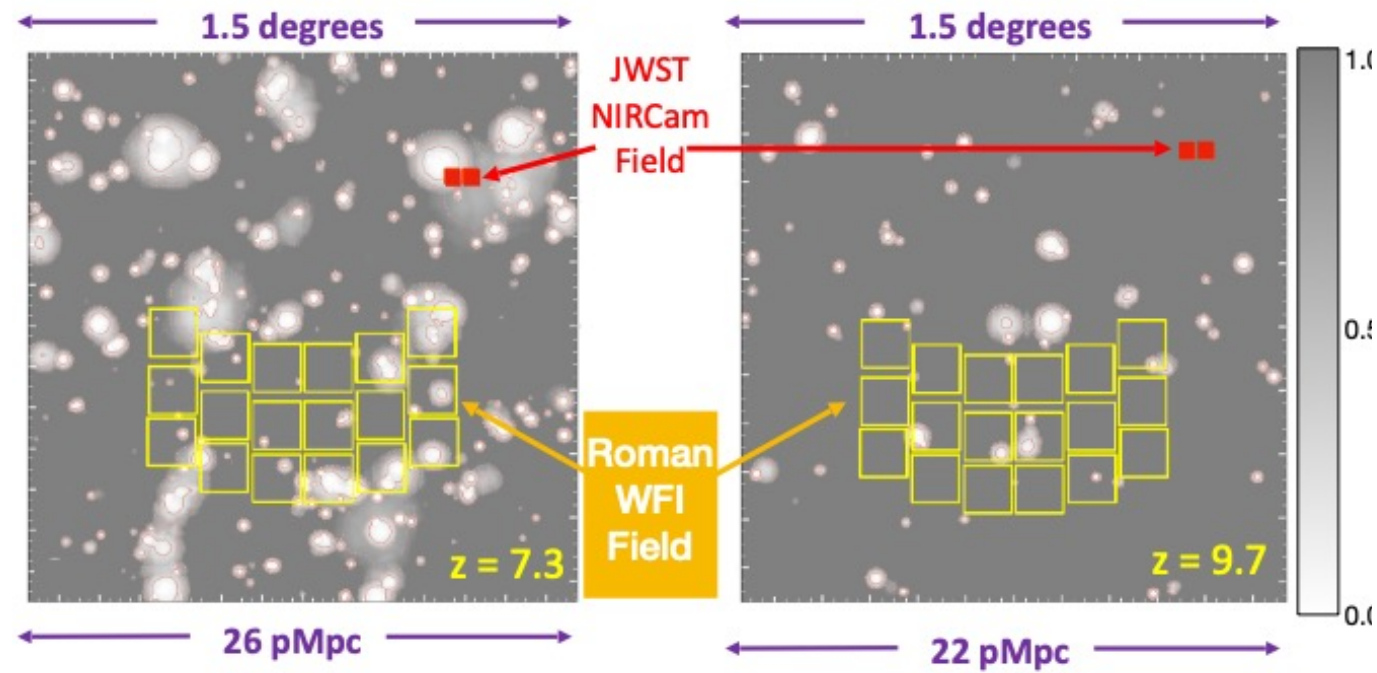
GRACE in the ecosystem



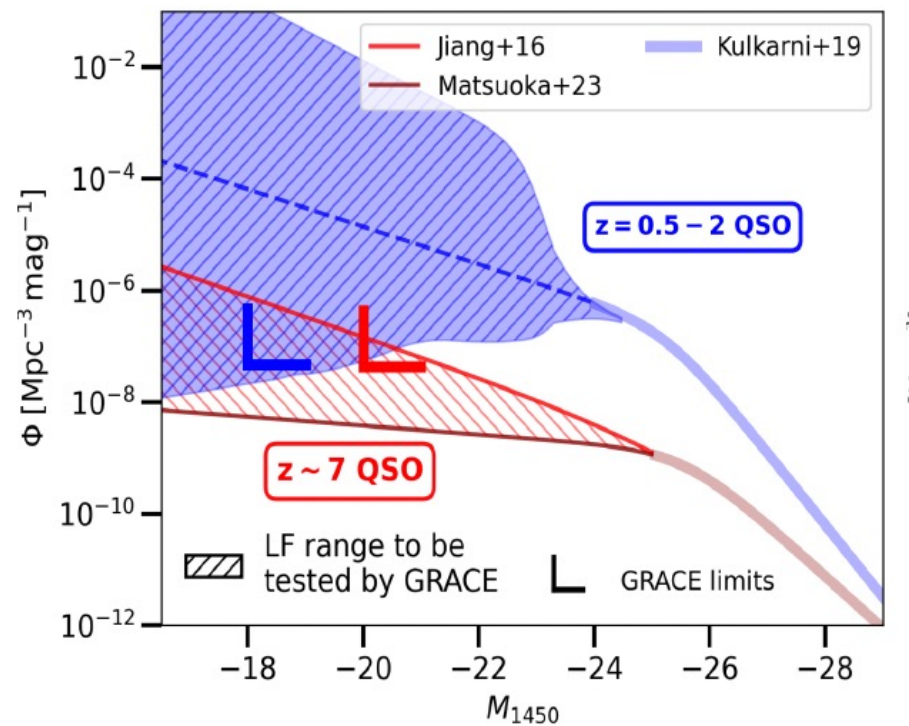
GRACE Cartography at cosmic noon



GRACE Reionization at dawn



Active Galactic Nuclei with GRACE



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