# INTEGRAL FIELD UNIT ON GRIS@GREGOR

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CARLOS DOMÍNGUEZ TAGLE



64" x 0.27"



6.75" x 3"

1.8 x 0.8 mm

## Simulation



# GREGOR + SLICER



6.75" x 3"



FoV	20.2 arcsec <sup>2</sup> (6.75" x 3")				
Number of slices	8				
Slice width	100 µm (0.375")				
Output slit	54" x 0.375"				



#### IMAGE SLICER PROTOTYPE: DIFFRACTION LIMIT





GRIS SPECTROGRAPH

- New scanning system (three motors)
  - X axis
  - Yaxis
  - Focus compensation
- New flat mirrors →insert beam into spectrograph
- New optical bench

## ALIGNMENT









#### IMAGE SLICER PROTOTYPE



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### IMAGE SLICER PROTOTYPE



#### SLITS PRODUCED BY THE SLICER



#### MIRRORS FOR ALIGNMENT WITH SPECTROGRAPH



#### MINISLITS RECONSTRUCTED



#### SLITS PRODUCED BY THE SLICER













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#### FIRST LIGHT RESULTS



- First tests are very encouraging
- We have validated the image slicer technology for solar observations
- We are working with WO to solve the problems in the next weeks
- We are already working on the next prototype with EST in mind