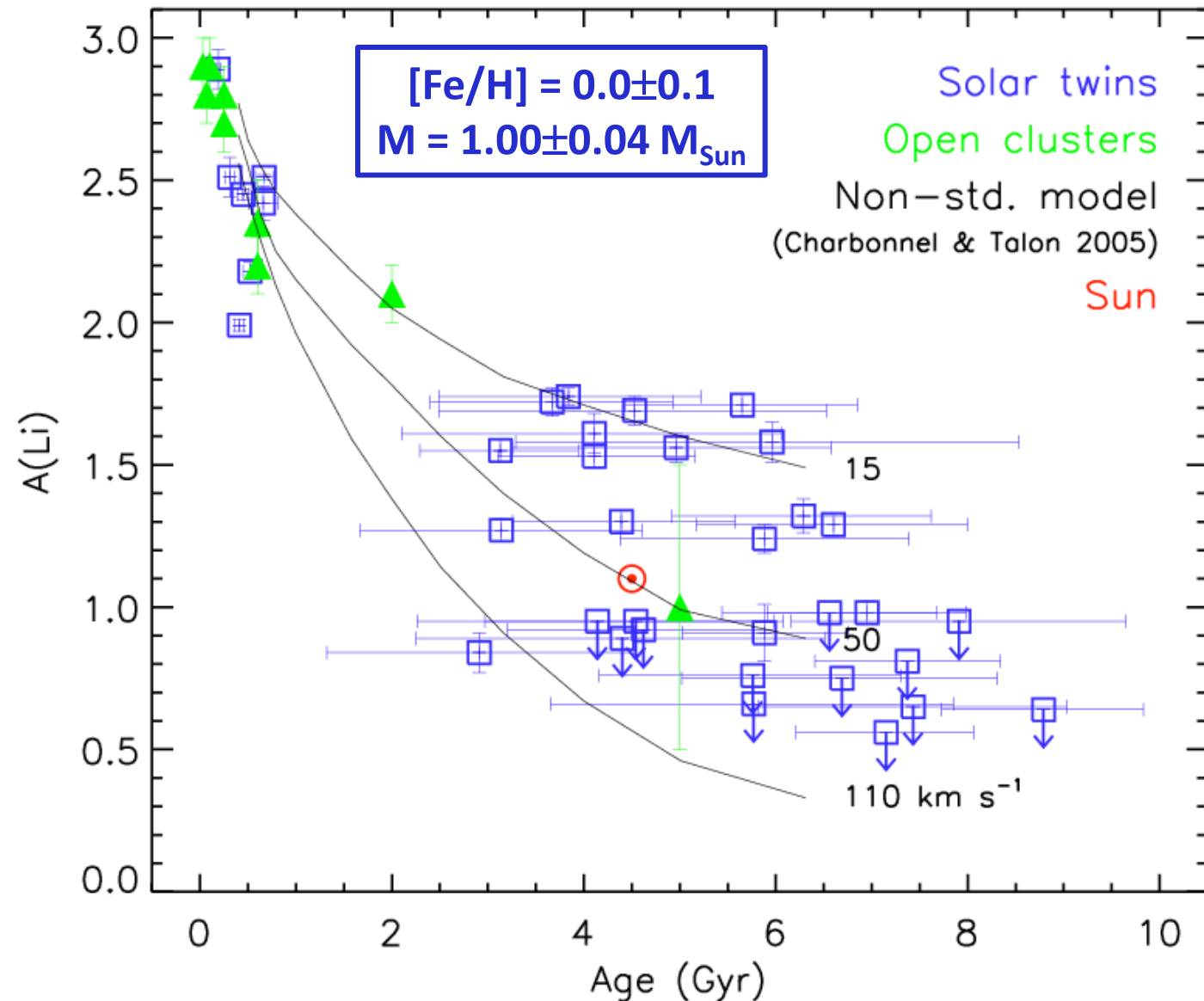


Lithium depletion in solar-like stars

Iván Ramírez

Baumann, Ramírez, Meléndez, Asplund, & Lind (2010, A&A, in press)



When restricted to a narrow range of mass and metallicity, solar-like stars follow a Li-age trend that can be explained by non-standard models of surface Li depletion.

The low solar Li abundance is normal for a star of its age, mass, and metallicity.

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The Li-age trend of metal-rich solar analogs is different from that of solar twins. In the 3-6 Gyr range, the metal-rich objects are more Li poor, regardless of their planet-hosting properties.

Stars with and without giant planets detected follow the same Li-age trends.

Planet hosts are not more depleted in Li.

