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Direct imaging of free-floating planets (Invited)

Monday, December 15, 2025 9:30 AM (30 minutes)

Direct imaging has revolutionized our view of the substellar population, revealing a growing population of free-floating planets. I will review the first discoveries, the current observational picture, and the prospects opened by upcoming instruments. I will describe the strategies used to identify free-floating planets, combining deep imaging, proper motions, and spectroscopy. Finally, I will discuss observational diagnostics that can shed light on their origin and emphasize the importance of characterizing their environment to constrain their formation process.

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