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Better Radial Velocity Measurement Precision Through Organic Chemistry: The GMT Consortium Large Earth Finder (G-CLEF)

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The GMT-Consortium Large Earth Finder (G-CLEF), is currently scheduled to be the first PRV-capable instrument on an ELT. G-CLEF embraces many design paradigms of earlier PRV instruments, especially the HARPSs. However, the G-CLEF design team is exploiting several novel technologies to deliver an exceptionally stable and calibratable spectrograph. In this talk, we provide an overview of the G-CLEF instrument, the challenges associated with designing a PRV instrument for ELT-scale apertures and then focus on those innovative design features of G-CLEF that should make it an exceptionally precise stellar velocimeter.

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