

**Session Program**

**27-30 Sept 2021**

**ALMA-FED 2021: ALMA Front End  
Development (Virtual) Conference 2021**

***Arrays***

## Thursday 30 September

13:00

### Arrays: Design of optical components (for FPAs)

Session |

Location: ESO (European Southern Observatory) Headquarters, located in Garching, near Munich (Germany) |

Convener: Sabrina Realini

13:05

13:05

### Arrays: Preliminary optics investigation for ALMA multibeam receiver

Session |

Location: ESO (European Southern Observatory) Headquarters, located in Garching, near Munich (Germany) |

Convener: Haoran Kang

13:10

13:10

### Arrays: Focal plane array concept for ALMA

Session |

Location: ESO (European Southern Observatory) Headquarters, located in Garching, near Munich (Germany) |

Convener: Doug Henke

13:15

13:15

### Arrays: Development of a 2 x 64 pixel heterodyne focal plane array receiver for the 450-500 GHz and 800-820 GHz bands

Session |

Location: ESO (European Southern Observatory) Headquarters, located in Garching, near Munich (Germany) |

Convener: Netty Honingh

13:20

13:20

### Arrays: Heterodyne Array Receivers for Space and Ground Based Applications

Session |

Location: ESO (European Southern Observatory) Headquarters, located in Garching, near Munich (Germany) |

Convener: Martina Wiedner

13:25

13:25

### Arrays: Development of hybrid technology (InP/Si) integrated modules for future mm-wave arrays

Session |

Location: ESO (European Southern Observatory) Headquarters, located in Garching, near Munich (Germany) |

Convener: Rodrigo Reeves

13:30

13:30

### Arrays: Demonstration of a Millimeter-wave Multibeam Receiver Implemented with Superconducting MMICs

Session |

Location: ESO (European Southern Observatory) Headquarters, located in Garching, near Munich (Germany) |

Convener: Wenlei Shan

13:35

13:35

### Arrays: Discussion (lead: Crystal Brogan)

Session |

Location: ESO (European Southern Observatory) Headquarters, located in Garching, near Munich (Germany) |

Convener: Crystal Brogan

14:10