



Contribution ID: 19

Type: **Invited talk**

## Dust and elements in the epoch of reionization

*Friday, 15 June 2018 14:00 (35 minutes)*

First, I will present our recent results from ALMA observations of galaxies in the epoch of reionization, redshifts  $z > 6$ . Second, I will present a method for estimating the dust temperature from far-infrared flux densities, taking the radiative equilibrium and transfer effect into account. Then, I will present a demographics study of dust mass in  $z > 6$  galaxies and compare the observations with a simple theoretical model. I will pay attention to “dust-free” objects as well as dust-rich ones. Finally, I will discuss the dust mass growth in the interstellar medium and future perspective.

### Consider for a poster?

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**Session Classification:** Dust in the early universe

**Track Classification:** Dust as a tool