snowScatt-1.0: A consistent model of microphysical and scattering properties of rimed and unrimed snowflakes based on the self-similar Rayleigh-Gans approximation

Ori Davide, Leonie von Terzi, Markus Karrer, Stefan Kneifel **University of Cologne, Germany**







3rd International Summer Snowfall Workshop

IWSS3

Reading

gather.town

MICROPHYSICS



SUMMARY With snowScatt you can:

- Compute SSRGA parameters of snow ensembles (and possibly contribute to the public snowLibrary) - Model the microphysical properties of snow (various fallspeed models included) - Calculate the scattering propertie of unrimed and rimed aggregates (good for radar applications, some caveats for passive) - Simulate basic radar Doppler spectra and moments (help PSD functions included)



F5: Microphysical properties (mass, area, fallspeed) modeled for some snow aggregates included in snowScatt