

Welcome to the

# VieVS days 2019!

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Sigrid Böhm



Vienna, October 15 – 17, 2019

# Agenda

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## DI October 15, 9:00 - 17:00

Welcome + Introduction to VieVS (Sigrid Böhm)  
Organizational issues  
Single session analysis (Helene Wolf)  
Multi session analysis (Sigrid Böhm)  
Global solution with Vie\_GLOB (global parameter adjustment) (Sigrid Böhm)  
Intensives sessions (Johannes Böhm)

## MI October 16, 9:00 - 17:00

Scheduling 24-hour session (Matthias Schartner)  
Scheduling intensives  
Monte-Carlo simulation  
Scheduling astrometry

## DO October 17, 9:00 - as required

VGOS sessions (Markus Mikschi)  
Baseband simulator (Jakob Gruber)  
Time for questions

# What is VieVS?

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- VieVS = **Vienna VLBI and Satellite Software**
- Since 2018 umbrella for all(!) software developments at Higher Geodesy
- VieVS VLBI Module: State of the art, geodetic VLBI data analysis software package
- Written in Matlab
- Since 2008 it is developed at the Department of Geodesy and Geoinformation (Research Area Higher Geodesy), TU Wien
- Close cooperation with former colleagues
  
- Current reference:  
J. Böhm, S. Böhm, J. Boisits, A. Girdiuk, J. Gruber, A. Hellerschmied, H. Krasna, D. Landskron, M. Madzak, D. Mayer, J. McCallum, L. McCallum, M. Schartner, K. Teke: *Vienna VLBI and Satellite Software (VieVS) for Geodesy and Astrometry*, Publications of the Astronomical Society of the Pacific, Vol. 130(986), 044503 (2018). <http://iopscience.iop.org/article/10.1088/1538-3873/aaa22b/meta>

# Who develops VieVS-VLBI?

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- **members** of the VieVS group at the TU Wien and BEV:



- **former members** of the VLBI group at the TU Wien
- contributions from **external partners** from international universities worldwide

# VieVS on the web

- VieVS Wiki: <http://viewswiki.geo.tuwien.ac.at>



- Get it from  **GitHub** : <https://github.com/TUW-VieVS/>

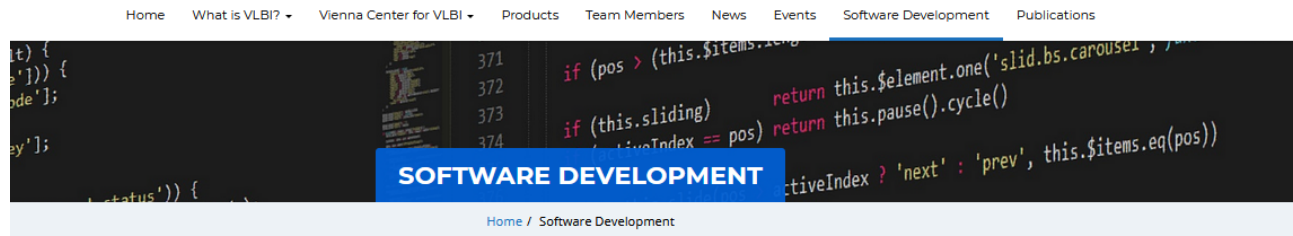
- VieSchedpp
  - VieSchedppGUI
  - VLBI
  - COMMON
  - RADIATE
- } Scheduling software
- } VLBI module
- } Raytracer

Refer to the  
Readme files!!

# VieVS on the web

- Vienna Center for VLBI: <https://www.vlbi.at>

## Vienna Center for VLBI



## Vienna VLBI and Satellite Software (VieVS)

The Vienna VLBI and Satellite Software VieVS is being developed at TU Wien since 2008. Starting as a state-of-the-art VLBI analysis software package, VieVS was gradually updated with additional capabilities and modules. Today, all software developed at the GEO department at TU Wien is released under the VieVS-umbrella. All VieVS modules are designed with a focus on interoperability in order to extend the functional range of VieVS.



[Read the VieVS reference paper: Böhm et al. \(2018\), PASP, Vol. 130, Nr. 986 \(open access\)!](#)

- VieVS channel on

