



Scientific and technical results / milestones:

- ◆ Implementation of a new turbo vacuum pump and a cryogas transfer tube
- ◆ Manufacturing of a new submm mixer by SRON (ongoing)
- ◆ Second ESA Rehearsal (SCIAMACHY data simulation)
- ◆ Participation in meetings / conferences
- ◆ Integration of a chirp transform spectrometer (CTS)
- ◆ Preparation and performance of the 2nd test campaign
- ◆ Measurement of a NO line at 651 GHz
- ◆ Analysis of the test measurements (ongoing)
- ◆ Check-up of compatibility of the instruments





Additional Integration of a Chirp transform spectrometer (CTS):

- ◆ Specification of CTS:
bandwidth 160 MHz, resolution 278 kHz
(as supplement to the installed AOS having:
bandwidth 1500 MHz, resolution 2 MHz)
- ◆ Aim of this modification:
Extension of the altitude range
for profile information up to 65 km
(for gases like ozone)

above 65 km:
Doppler broadening > pressure broadening
but: column information is still available
- ◆ Additional benefits:
Trace gases with high stratospheric contribution
become accessible, such as NO, HCN, ...

