ZWURM, 08-03-2021 15:00 (ZWURM through Zoom because of #COVID19 house quarantaine/wk52)

Present eBob, Aard, Paul, Ilse, Mark, Des, Harro

Paul: WR tests running for calibration and measurements. Flexbuff7 reports a broken disk, will look into that. Spent time resetting passwords. Invited to present our use case at "GÉANT Infoshare: European Time and Frequency Services – Principles, Challenges and Use Cases" (https://events.geant.org/event/451/) and need to submit abstract for European Time & Frequency Forum as well. Received EB081B data – source detected! Q[Aard]: login on Jupyterhub? A: is not on LDAP so will create local account; pls send public key. [Discussion w Paul/Mark/Harro] security policy re. jops account and other shared? How is this used by operators and supp.sci.? (iPad, Windows) Shared accounts (jive_cc, casa, sfxc) probably should be w/ o password and have sudo from other accounts. If using hardware keys make sure compliant with U2F/FIDO.

Des: Mining combined databases (Northstar, experiment, archive) – found Northstar db to be extremely polluted, cannot extract useful statistics w/o normalizing first. Q: how about VO database? is Postgres so cannot join? A[Mark]: can query using SQL-like language (ADQL), will have to join "manually" but accumulating / grouping can be done on the VO server. Working on fringefit memo, hope to distribute this week for internal review.

Aard: FranzK "IT DOESN'T WORK" – dynamic channel extractor compiles and exists but doesn't load and built-in static didn't support 64 bitstreams; now it does; but real issue (why generated dynamic module fails to load) not solved. Now would be a good time to release a new stable sfxc version, accumulated a number of fixes and improvements – will get onto that. Got pyvo working in Jupyterlab extension – it's two parts: server(python) and client(javascript) so useful bits implemented serverside in Python at the expense of some overhead in client/server traffic. Q: no frequency band info in VO / ObsCore? A[Mark]: yes there is; em_min/em_max are wavelengths and some observatories have added their own frequency columns. Continue work on Jupyterlab config this week.

Ilse: EAS abstracts received, not all info (names, titles), will start to make plan. EHT verification test: spammed 400ppl x 4 because team server hiccup (but at least now they *really* know!). EHT press release coming, since Ilse is only person at JIVE that has clearance and comms experience, will have to spend time on that as JIVE plays a role in this one. Changing passwords, new passport. With BenitoM & DeniseG support EVN symposium. Paper from JunY coming. Comms officer selection committee meeting this week, w/ Olga document spectral line reduction changes.

Bob: Session data transfer issues: Ir slow (100-200Mbps), Ir checked: found nothing strange, can only investigate after session; offer to record eMerlin locally not taken up so far. Transfer priority per station in stead of per experiment in progress, will

try this week. Received FREQ updates for pySCHED (setinis) — changed script to "normalize", check if setup is subset of already existing. Found problem redirecting drupalized scripts — http POST parameter needed, otherwise scripts do not work; sent mail to drBob & Zs but have not received any feedback from them. KaziR found bug in current archive cone search: bug in parsing declination if declination < 0.

Mark: attended EAVN workshop last week (tough but interesting): new antennas being built in Asia and several conversions of ex telco dishes ongoing (Thailand, Indonesia); CASA talk was well received, sparked interest. Attended EU—VGOS correlator meeting, will look at data reduction in CASA, DesS should attend as well. Also attended IVS antenna calibration meeting, shared some info but is more station thing currently than downstream processing. Attended EHT software/data compatibility meeting: need to play with ngCASA data structure as next step to see if data reduction / representation can be done. Heating equipment broke — repair man visited; get replacement tomorrow, got temp electric heating replacement.