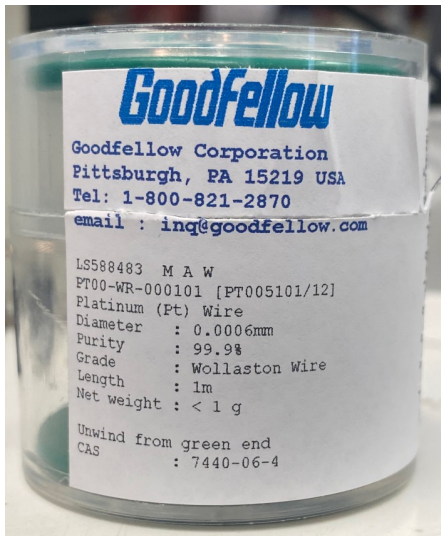


Recent Work on Target Development

Dannie Steski, Frank, Oleg, Prashanth, ...

Commercial wires as Targets

- We ordered W (4 μm) and Ag coated Pt (0.6 μm) wires through CAD
- CAD paid for the wires.
- Dannie is working on mounting the wires to holders:
 - Essentially all work done by Dannie, quite a steep learning curve with new materials
 - Everybody else is watching and learning how he does the things
 - Five 4 μm W-targets ready to be mounted
 - Pt wires were successfully glued to the target holders
 - But etching with HNO_3 (75%) breaks the 0.6 μm wire
 - Stress on Pt wire seems too large when Ag coating is removed or etching procedure is adding stress
 - Dannie is trying different methods
 - 4 μm Pt wires without Ag coating has been ordered, in case we don't succeed with 0.6 μm Pt wire
- Expect to mount targets and detectors at polarimeter in early March
 - Six weeks available for pump down before run start
 - Goal : mount up to 8 W & Pt targets at the polarimeter, one on each target holder



0.6 μ m Pt
(coated with Ag)



4 μ m W



Ag epoxy to
complete the
electrical loop



Epoxy to glue to mount
wire to the target holder



Mounting the wire to holder (W)



Work at CFN

- Working at CFN is basically dead for last 2.5 months
 - Due to equipment failure (Lesker contacts evaporator)
- Personally, don't have much hope
 - Due to unreliability of equipment
 - Short-staffed, not much help
 - Methods provides very low yield compared to commercially available wires