

# Target Material Update

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# Outline

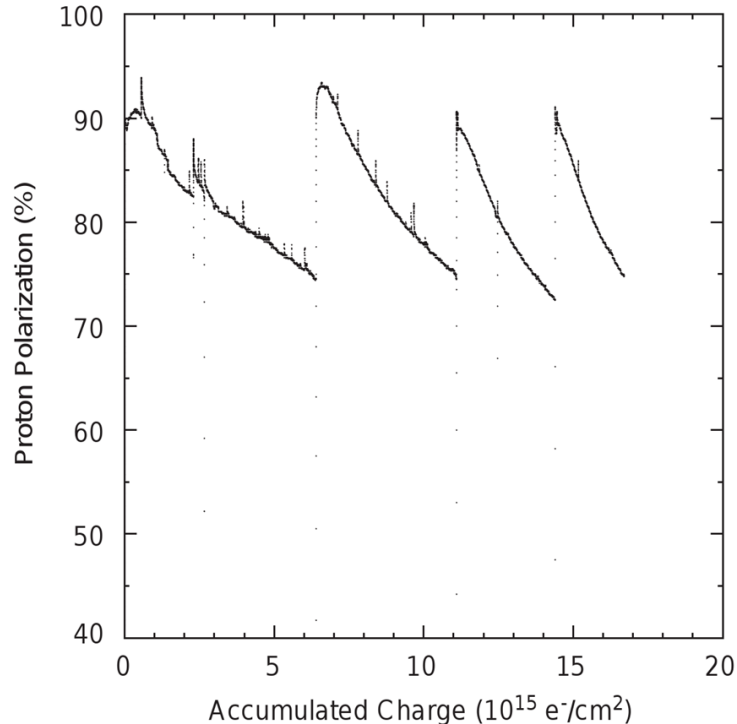
- Current Materials
  - How long does it last
- Estimated Material Production
- Irradiation
- Available Man Power

# Current Materials

- 3 bottles from most recent irradiation
  - tested to ~95% polarization
- 1 bottle frozen non-irradiated

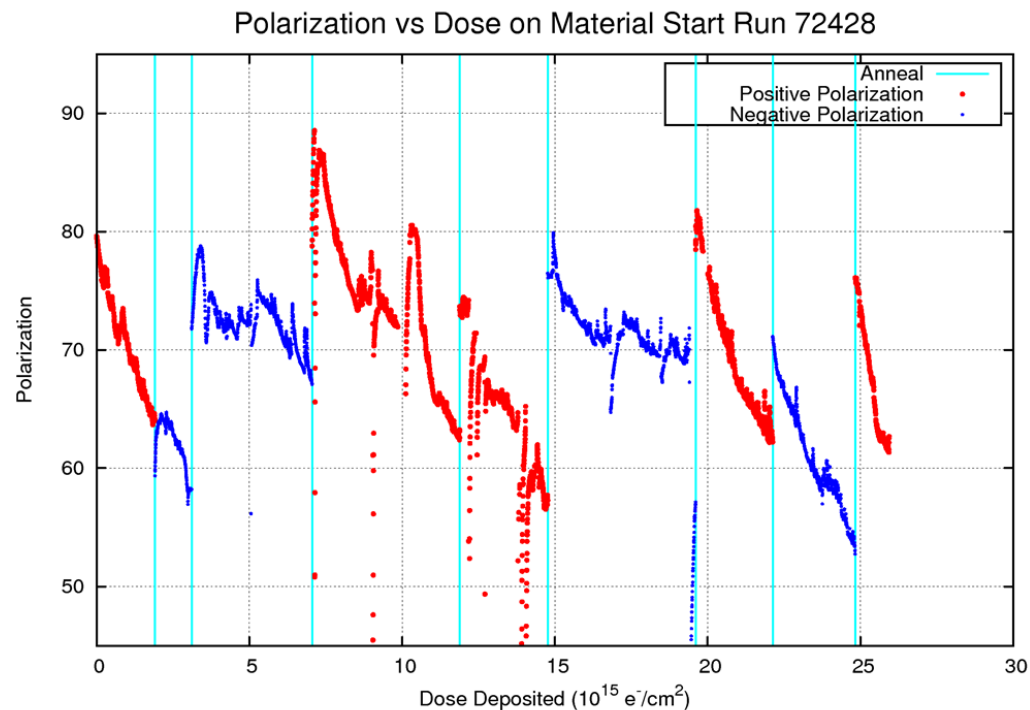
# How Long Does it Last?

- One bottle fills about 1 ¼ target cups
- Sane used 6 “sticks” or 12 bottles
- Polarization decreases with dose
  - Can be “refre



# Anneals

- Repeated anneals lose effectiveness
- At 100 nA, 3-4 days for a stick with 2 cups
  - Based on experience with SANE



# Estimated Material Production

- Takes 2-3 days to freeze one bottle's worth
- Once frozen, Ammonia needs to be doped by irradiation
- About 2 bottles per day can be irradiated
  - 6 bottles in 3 days

# Irradiation

- Possibly in May, may be in June
  - Waiting on installation of sensor in venting system
- Will last 3 days
- 200 dollars an hour, 7 hours a day

# Available Man Power

- From UVA Target Group
  - Me
  - Don Crabb



