

SciGloss Meeting - 8/23/2022

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Diff. glass
matrix

Family 1

CUA 2022-5-X

"green"

Family 2

CUA 2022-2-X

"blue"

up to ~50ph/MeV

40cm ↓

NEW NEVER

not made
for prototype
test

- recently tried to improve transmittance - difference w/ inherent

→ seems from small Platinum particles from crucible

→ see steps because improved for each bar [probable]

↔ no attempt was made at uniformity yet

- difference between series

↗ (JL) appt

→ see valence states $4^+ / 3^+$

radiation ↘
hadrons

→ blue has higher 3^+ content - the other not or strongly
reduced (lower 3^+)

- transmittance for 40cm block

→ optical bench cold-on for spectro photometer

⇒ All 40cm blocks should be uniform in characteristics

- light yield test w/ Co-60 vs. cosmic

→ At 2cm see factor 2 difference

long-term

- objective: improve transmittance

- INFIN-GENVEST → measure w/ SiPM