Need for an internal Calibration Source (dobi ch 7)

-Self shielding

-Why we can’t use Cs

Tritiated Methane as a source

-Requirements for a good source (WS energy range, mixing, removable)

-Tritium characteristics (energy facts, half life)

-Why bare tritium doesn’t work (high diffusion)

-Removal of tritium

Development of the Injection System

Injecting into lux

Natural methane injection

Purification time constants

Light quenching from methane

Results of LUX injections

Mixing, time constant, rates, total amounts, removal

ER band, discrimination, and other physics (threshold, etc).