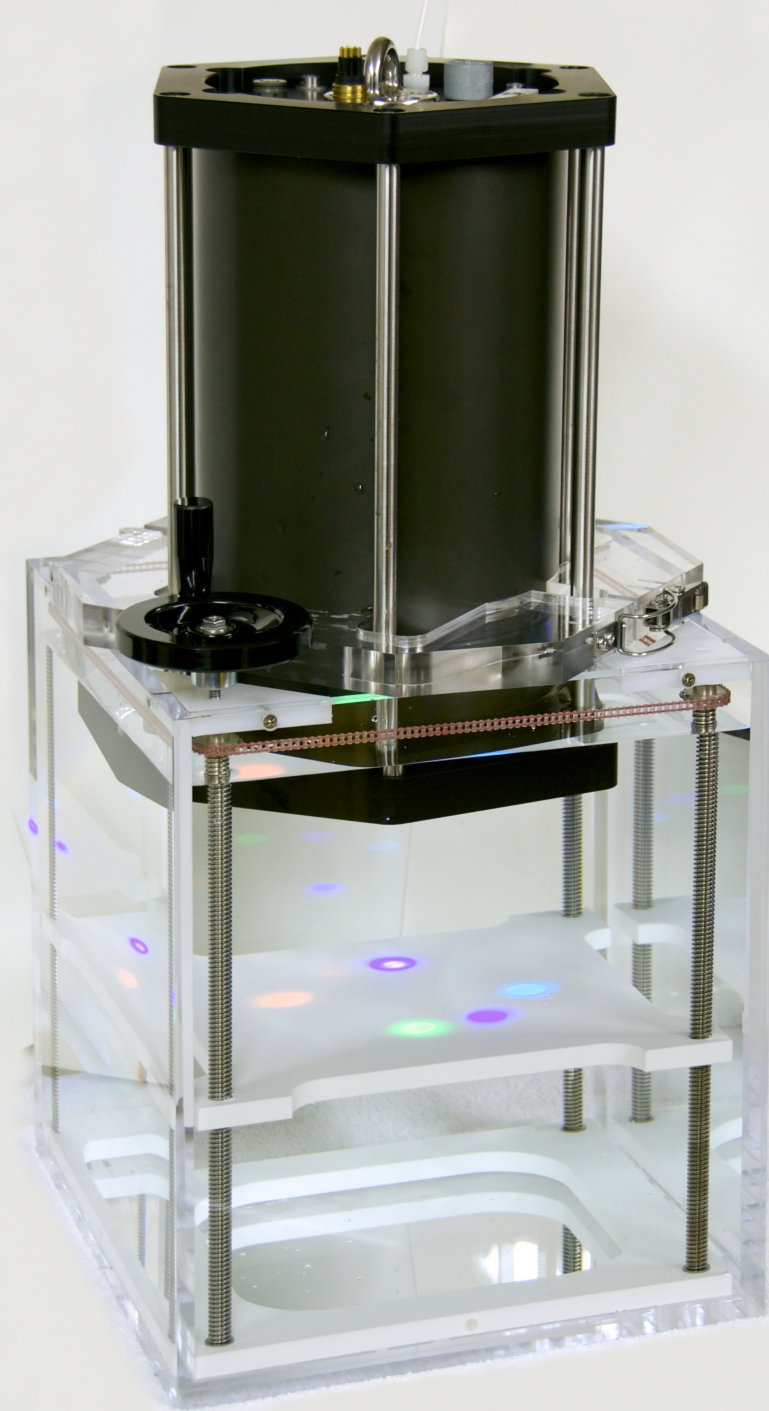
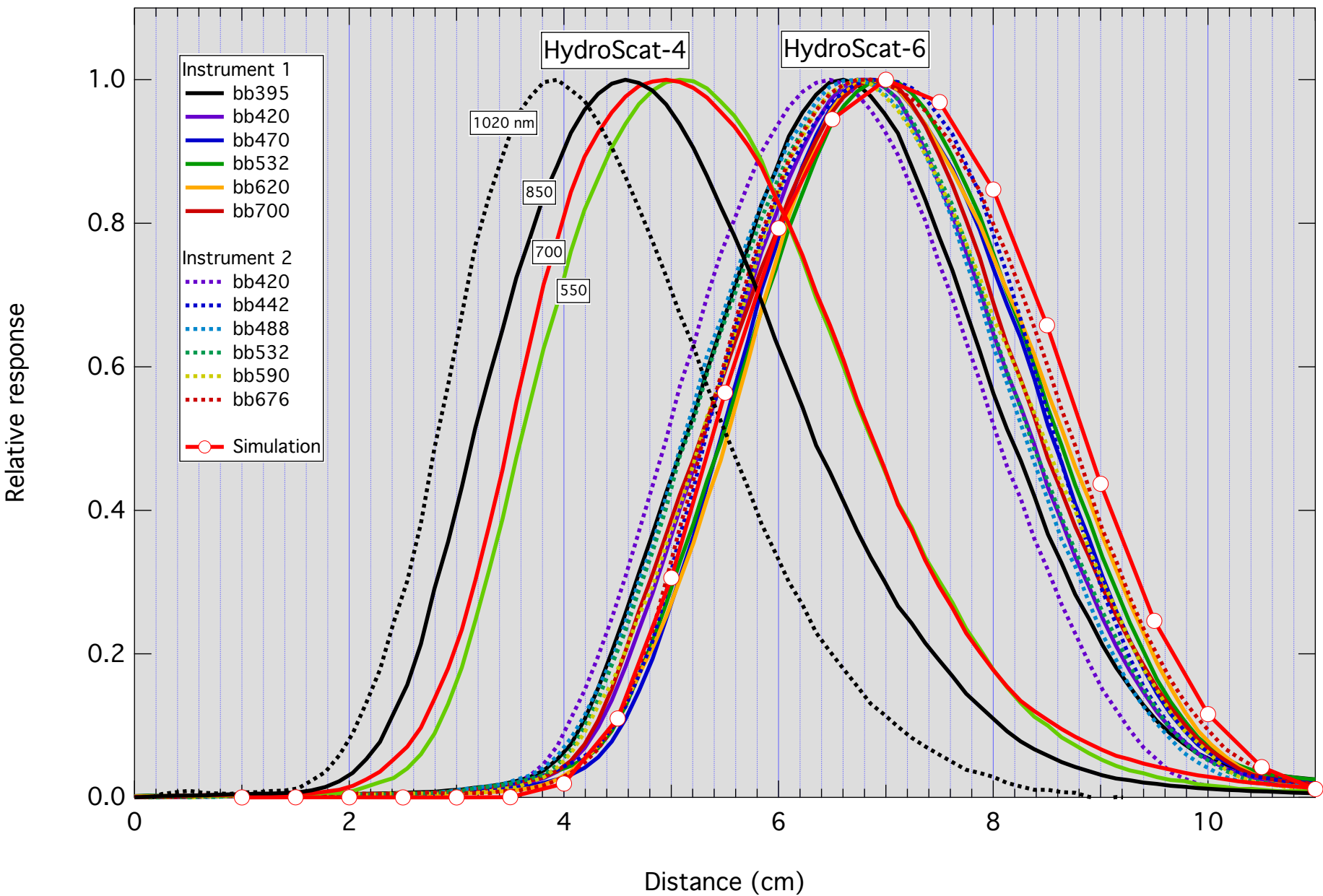


- Hydroscat status
- Reflecting plaque cal basics
- Reflecting plaque uncertainty
- Correcting for attenuation





# HydroScat Response Curves



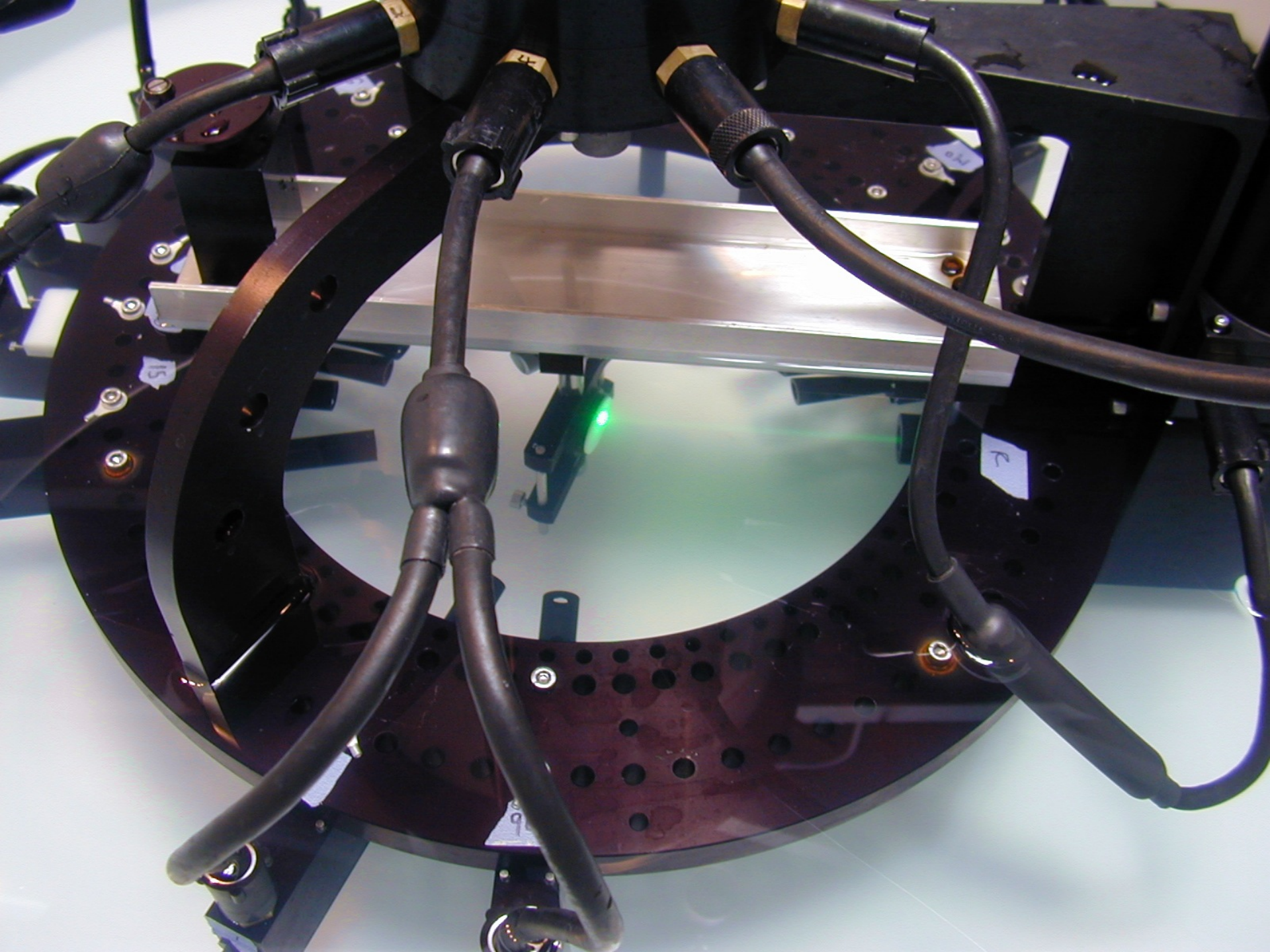
# Reflecting Plaque Uncertainty

- Geometric assumptions: minor but not quantified
- Plaque irradiance reflectivity: 1-2%
- Plaque reflectivity vs. angle: “a few percent”

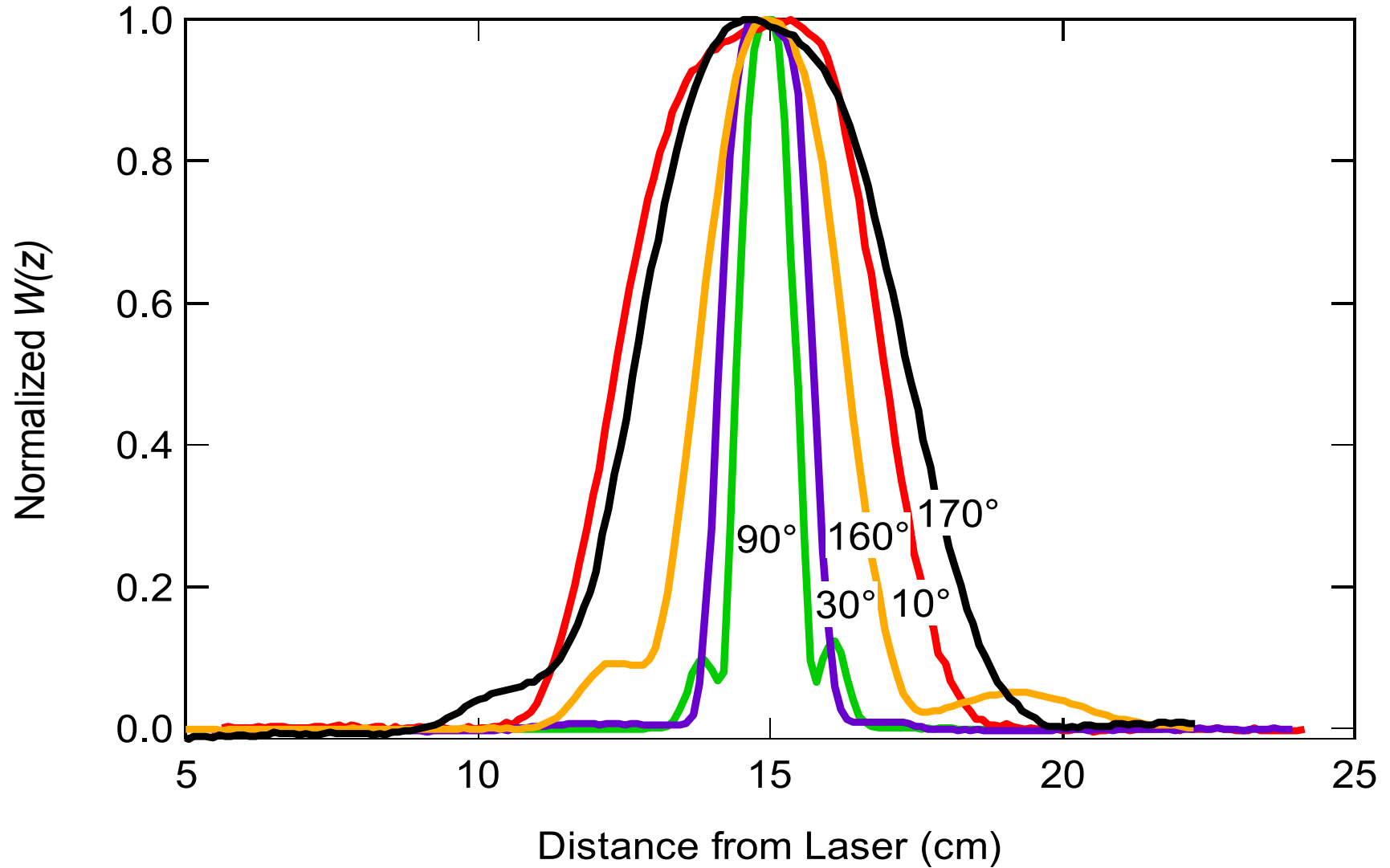
# $b_b$ Uncertainty

- Attenuation correction
- Convert beta to  $b_b$
- What is the measurement angle really?



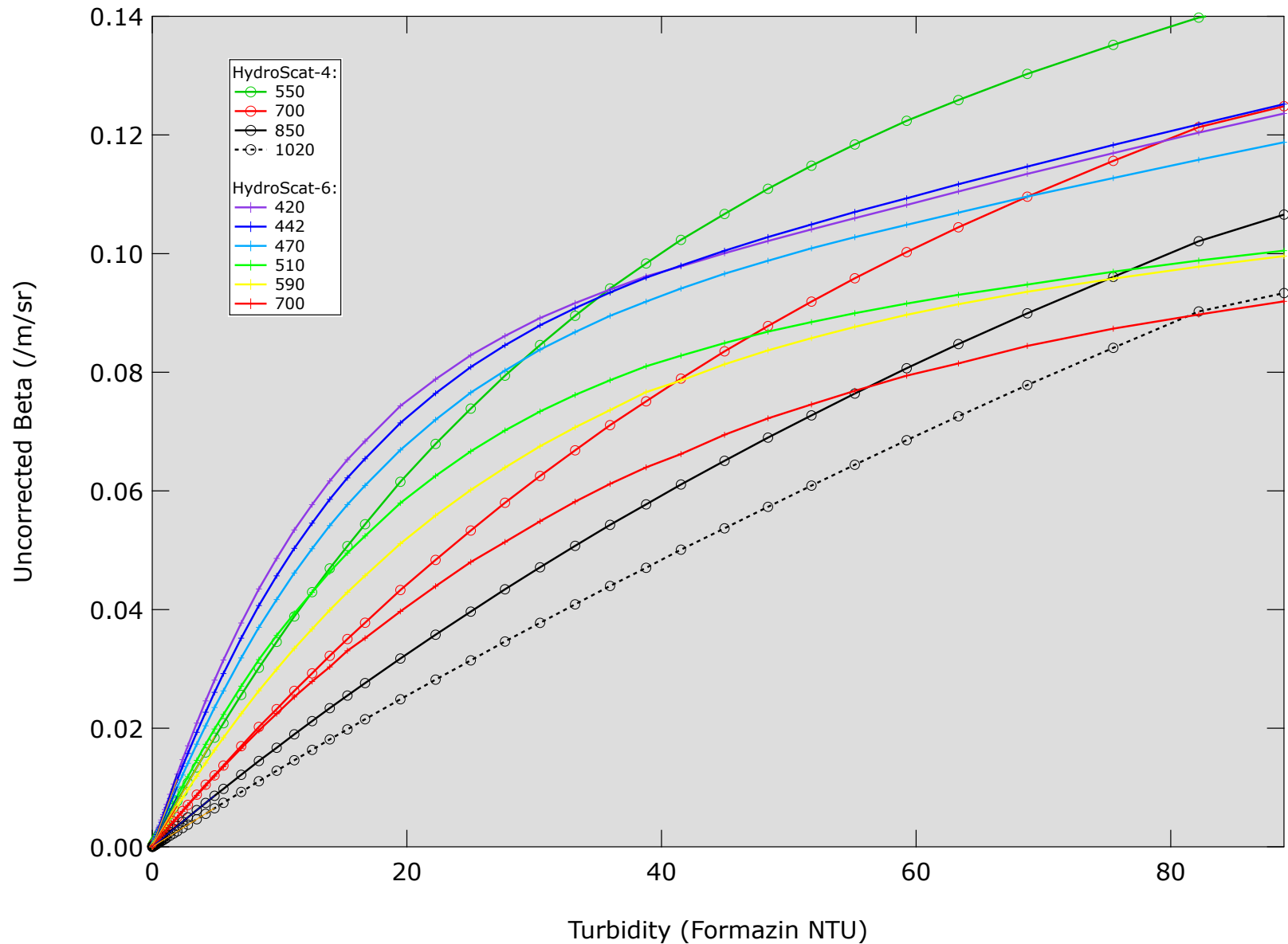


# HydroBeta Response Curves





# Attenuation



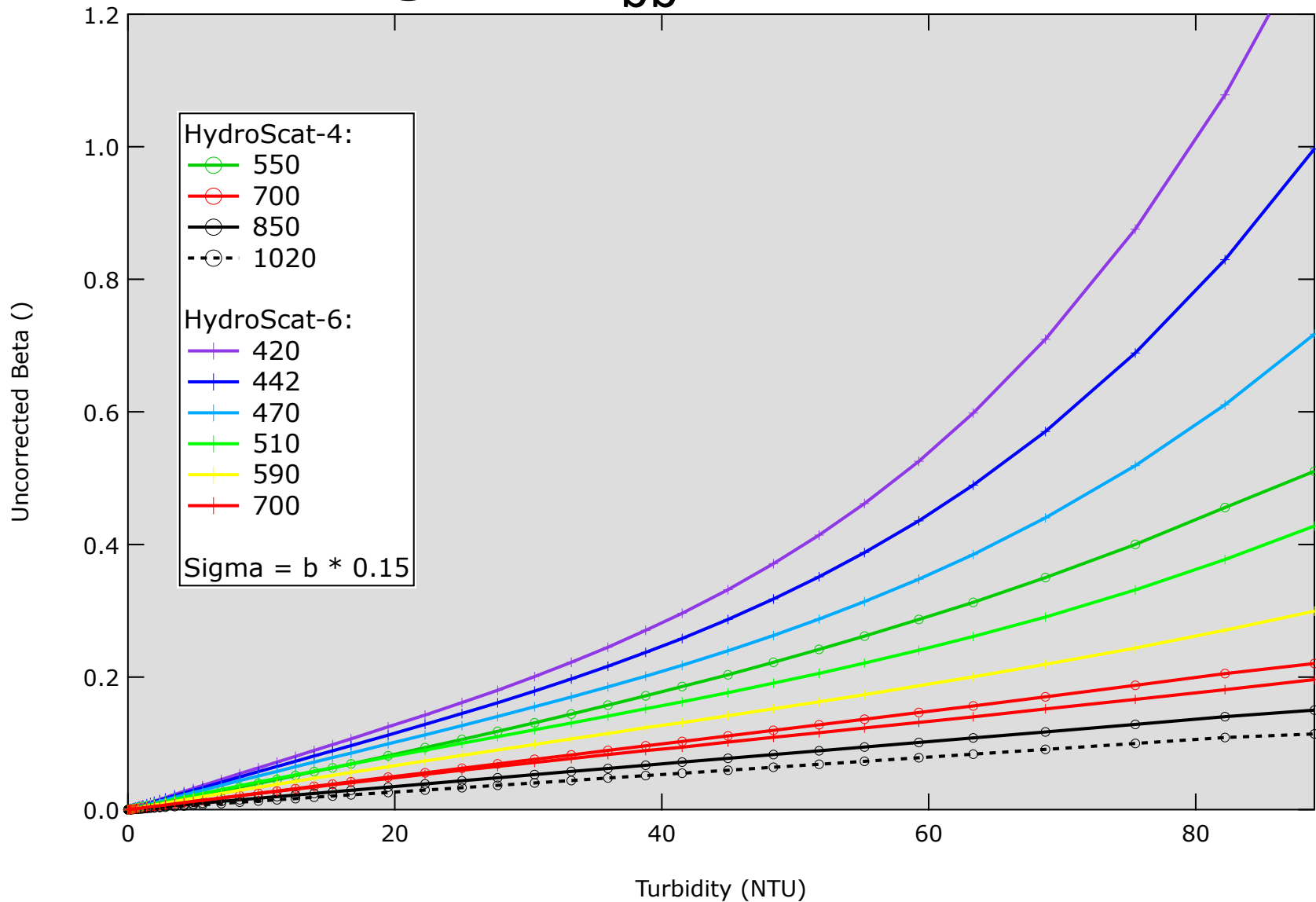
# Sigma (Attenuation) Correction

$$\beta = \sigma(K_{bb}) \cdot \beta_u$$

$$\sigma(K_{bb}) = \exp(k_{\text{exp}} K_{bb})$$

$$K_{bb} = a + 0.4b$$

# Sigma, $K_{bb} = a + 0.15b$



# Sigma, $K_{bb} = a + 0.40b$

