Select zircon for analysis:

**Step 1.** Select grain geometry and GEM category

- Tetragonal
- Ellipsoid

**Step 2.** Measure the grain's length, maximum width, and minimum width

**Step 3.** Calculate the 2D values

**Step 4.** Correct the 2D V, isotope-specific $F_{T}$, and $R_{FT}$ values according to grain geometry

*Example:*

$$V_{GCM} = V_{2D} \times \text{correction}$$

**Step 5.** Assign uncertainties to $V_{GCM}$, isotope-specific $F_{T, GCM}$, and $R_{FT, GCM}$ according to grain geometry (all parameters) and maximum width ($F_{T, GCM}$)

*Example:*

$$V_{GCM} \pm 1\sigma \text{ uncertainty } \%$$

**Step 6.** Calculate derived parameters (mass, eU, corrected ZHe date) and propagate uncertainties