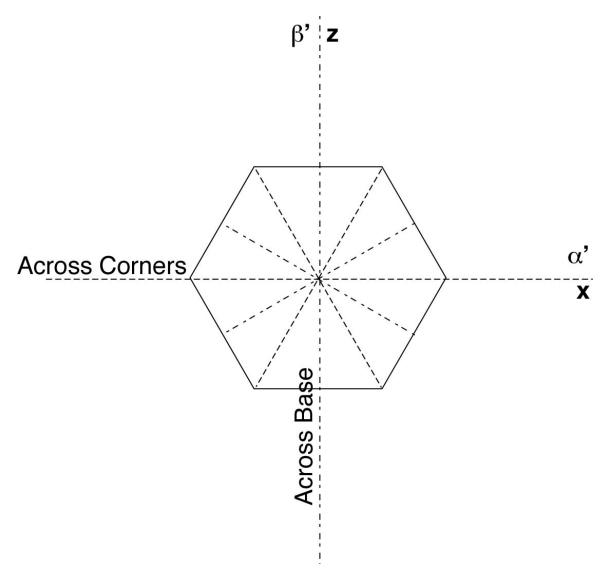
## **IBEX-Lo Collimator Point Spread Function**

The IBEX collimator provides a hexagonal FoV, with  $\approx 7^{\circ}$  FWHM in lo-resolution and  $\approx 3.5^{\circ}$  FWHM in hi-resolution. That the hi-resolution section is also active in loresolution mode is negligible for the FoV function because it contributes only  $\approx 5\%$  of the counts.



**Figure 1**: Hexagonal opening of the IBEX-Lo collimator, shown in spacecraft coordinates. The x-direction is along the spin axis, and the z-axis is in the spin direction.

The file "Coll-FoV\_PointSpread.csv" contains the throughput function of the collimator as a function of angle *Theta*, starting with  $0^{\circ}$  along the collimator boresight for the lo-resolution (columns B and C) and hi-resolution (columns D and E) aperture. Shown are the transparency values ( $Tr_Base$  in z and  $Tr_Corner$  in x) along the two principal axes of the hexagon as shown in Figure 1. The throughput is normalized to 1 for particles arriving along the boresight.