To: Deuterium Array Group  
From: Alan E.E. Rogers  
Subject: Expected D1 line profiles from Galactic anti-center

Using the method described in memo #52 I have plotted the expected line profiles for the array beams pointed at \( l = 171, 183 \) and 195 degrees. The following assumptions are made:

- \( T_R \) = receiver noise = 40K
- \( T_{\text{spin}} \) = spin temperature = 130K
- Spatial distribution of continuum
- 50% in front of H1
- 50% behind H1

![Graph showing line profiles for G171, G183, and G195](image-url)