

# De Haas–Van Alphen (DVHA) effect in Au

[001] DVHA oscillations in Au

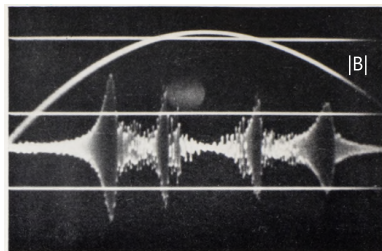


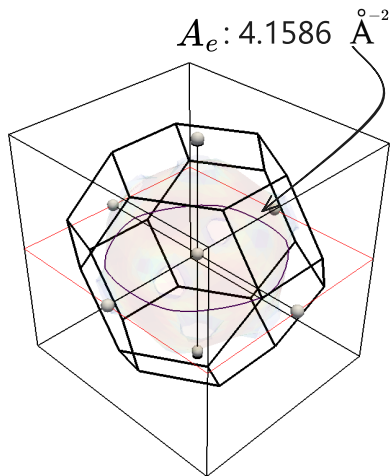
FIGURE 4. Belly and rosette blips for Au 36, illustrating the peak-to-peak method. The resonant frequency is about 44 kc/s; calibration lines at  $H = 1.05, 1.16$  and  $1.28 \times 10^5$  G; about 9 ms across picture. (Shoenberg, 1997)

$$F = \frac{c\hbar A_e}{2\pi e}$$

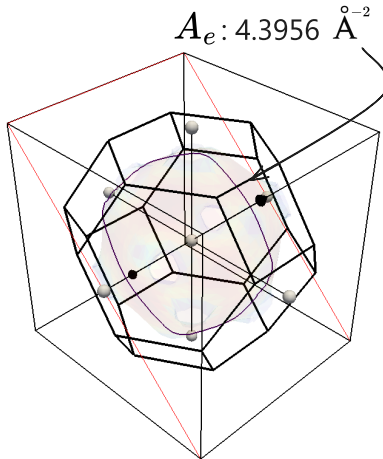
$A_e$  : Extremal Cross Section

$F$  : Frequency of Magnetic Field Strength

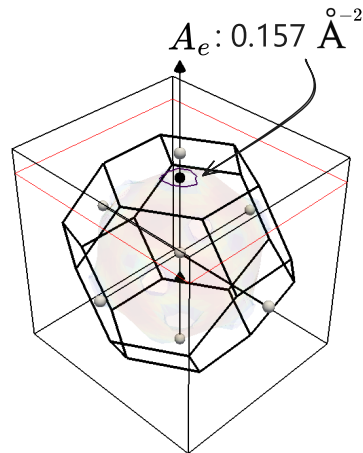
Orbit Type	$A_e$ ( $\text{\AA}^{-2}$ )	$F$ (G)	$F_{exp}$ (G)
Belly 001	4.1586	$4.365 \times 10^8$	$4.50 \times 10^8$
Neck 001	0.1597	$1.68 \times 10^7$	$1.50 \times 10^7$
Belly 011	4.3956	$4.61 \times 10^8$	$4.85 \times 10^8$



[0,0,1]



[0,1,1]



[0,0,1]