

Table IV

The Elastic Constants of Silver
at 25°C in units of 10^{12} dyne cm^{-2}

- A. The normal and shear constants for the $[110]$ direction compared with those from Bacon and Smith⁴.

Constant	This Work	Comparison	Difference
$C_{110}^n = C_{11} - C' + C$	1.5520	1.5486	0.2%
$C_{110}^{\tau} = C$	0.4628	0.4613	0.3%
$C_{110}^{\tau'} = C'$	0.1527	0.1528	-0.1%

- B. The directly measured normal and shear constants for the $[100]$ and $[111]$ directions compared with those computed from our measurements on the $[110]$ crystal.

Constant	Measurement	From $[110]$	Difference
$C_{100}^n = C_{11}$	1.2419	1.2419	0.0%
$C_{100}^{\tau} = C$	0.4636	0.4628	0.2%
$C_{111}^n = \frac{1}{3}(3C_{11} - 4C' + 4C)$	1.6574	1.6554	0.1%
$C_{111}^{\tau} = \frac{1}{3}(2C' + C)$	0.2553	0.2561	-0.3%