

The David Borwein CMS Career Award



$$= \sum'_{n,m,p} \frac{(-1)^{n+m+p}}{\sqrt{n^2 + m^2 + p^2}}$$

This polished solid silicon bronze sculpture is inspired by the work of David Borwein, his sons and colleagues, on the conditional series above for salt, **Madelung's constant**. This series can be summed to give uncountably many constants; one is **Madelung's constant for sodium chloride**.

This constant is a period of an elliptic curve, a real surface in four dimensions. There are uncountably many ways to imagine that surface in three dimensions; one has negative gaussian curvature and is the tangible form of this sculpture. **(As described by the artist.)**