The Fourier Integral, $\int_0^\infty \frac{\sin x}{x}\,dx = \frac{\pi}{2}$, illustrated. T.J.J.See, Oct.25.1935.

Plate I. Graphical Illustration of the <u>Fourier Wave-Theorem</u> of 1802, $\frac{2}{\pi}\int_0^{+\infty}\frac{\sin \rho\xi}{\xi}\,d\xi = 1 = \frac{1}{\pi}\int_{-\infty}^{+\infty}\frac{\sin \rho\xi}{\xi}\,d\xi$, neglected in Physical Science since, for 125 years,--1802-1927; but now of universal use in the <u>Theory of Solid Bodies</u>, the <u>Sphericity</u> of <u>Liquid Globules</u>, with <u>Minimal Surfaces</u> of <u>Least Action</u> for <u>Moving Waves</u>, and the <u>Spheroidal Figures</u> of the Stars and Planets. Above an Illustration of Vector Composition.