

**Graph referenced as "Light scattering. Particle scattering function for TMV. Bacothen + Simpson 1958"**

**Contributors**

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molecule. This radius of gyration of simply shaped molecules of a rod-like molecule of end-to-end distance  $L$  is given by (6) or (7). Higher terms in Eq. (11) depend on the shape, as well as on the end-to-end distance  $L$ .

As one can consider the tobacco mosaic virus as a rod-like molecule, one can consider the reciprocal particle scattering factor according to Eq. (11). Light-scattering curves of tobacco mosaic virus solution are shown in Fig. 4. The angular dependence of the reciprocal particle scattering factor is shown in Fig. 4. The concentration and  $\sin^2 \theta/2$  are known as 0.00000 and  $(\sigma^2)^{1/2}$  respectively. The broad molecule is a tobacco mosaic virus sample that has already been reported as indicative of a quite long rod-like molecule when the following unit has a molecular weight of 1350. Hence, the number of units making up a chain is about 1350. Completely extended length. By comparing the experimental results with the theoretical curves to rotation at the

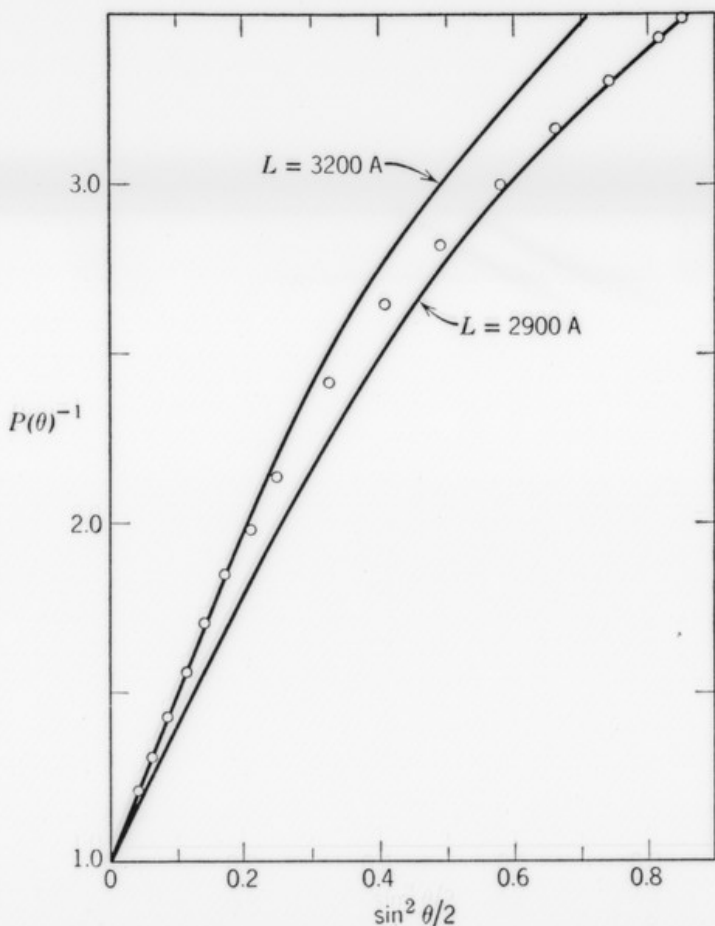


FIG. 4. Reciprocal particle scattering factor of tobacco mosaic virus solution: sample 14; experimental points, — theoretical scattering curves.