

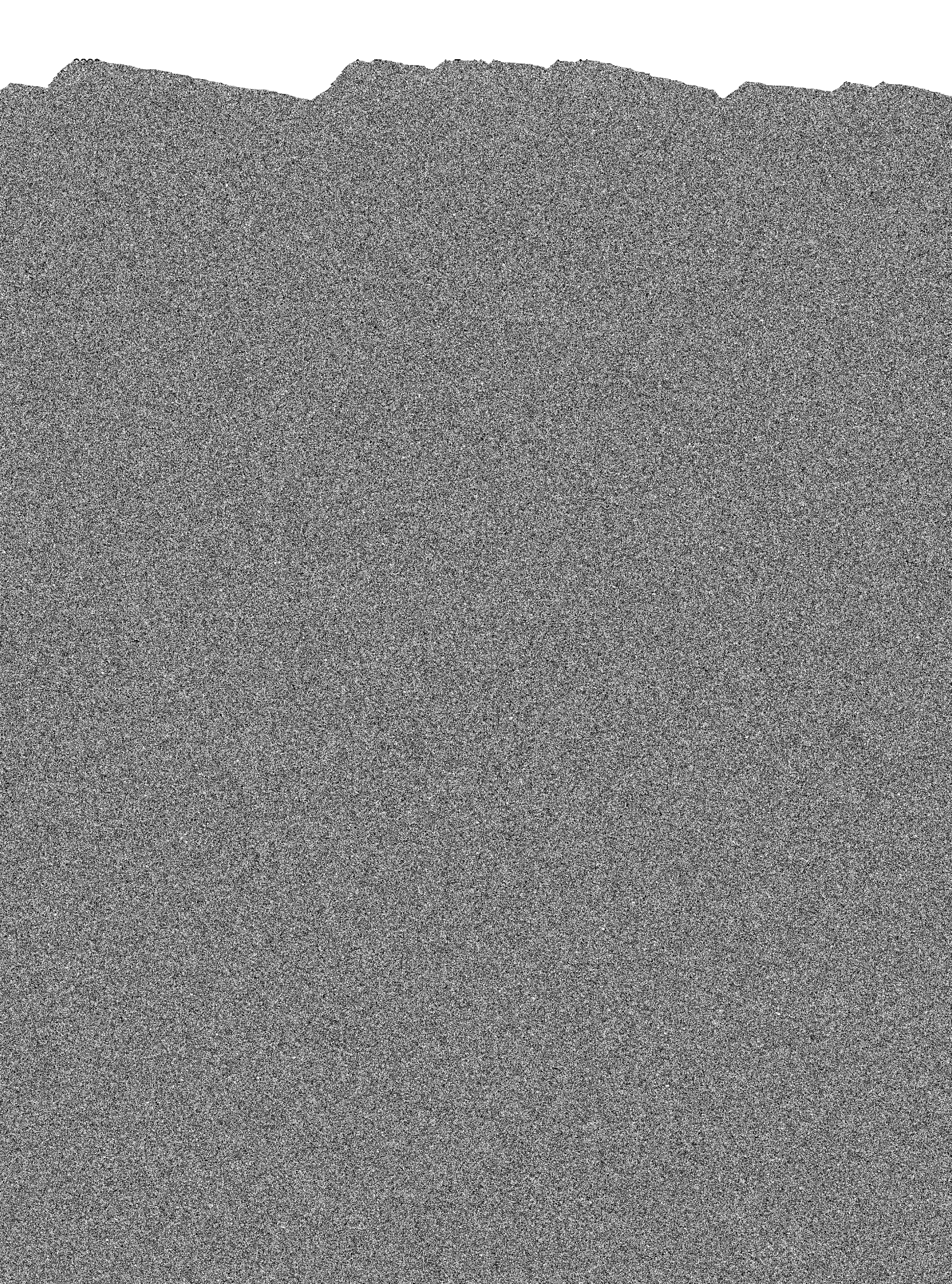
$$K = 3244.18 \text{ kcal/\AA}^2$$

for the harmonic intramolecular potential [Eq. (19)].  
The molecular bond length  $b_0$  was not treated as a pa-  
rameter but set at the experimental N-N bond length of













The Davydov splitting between  $q = 0$  internal modes in  $\gamma$ -N<sub>2</sub> is larger than the corresponding splitting in  $\alpha$ -N<sub>2</sub>. Experimentally<sup>22</sup> only one Davydov component was ob-



