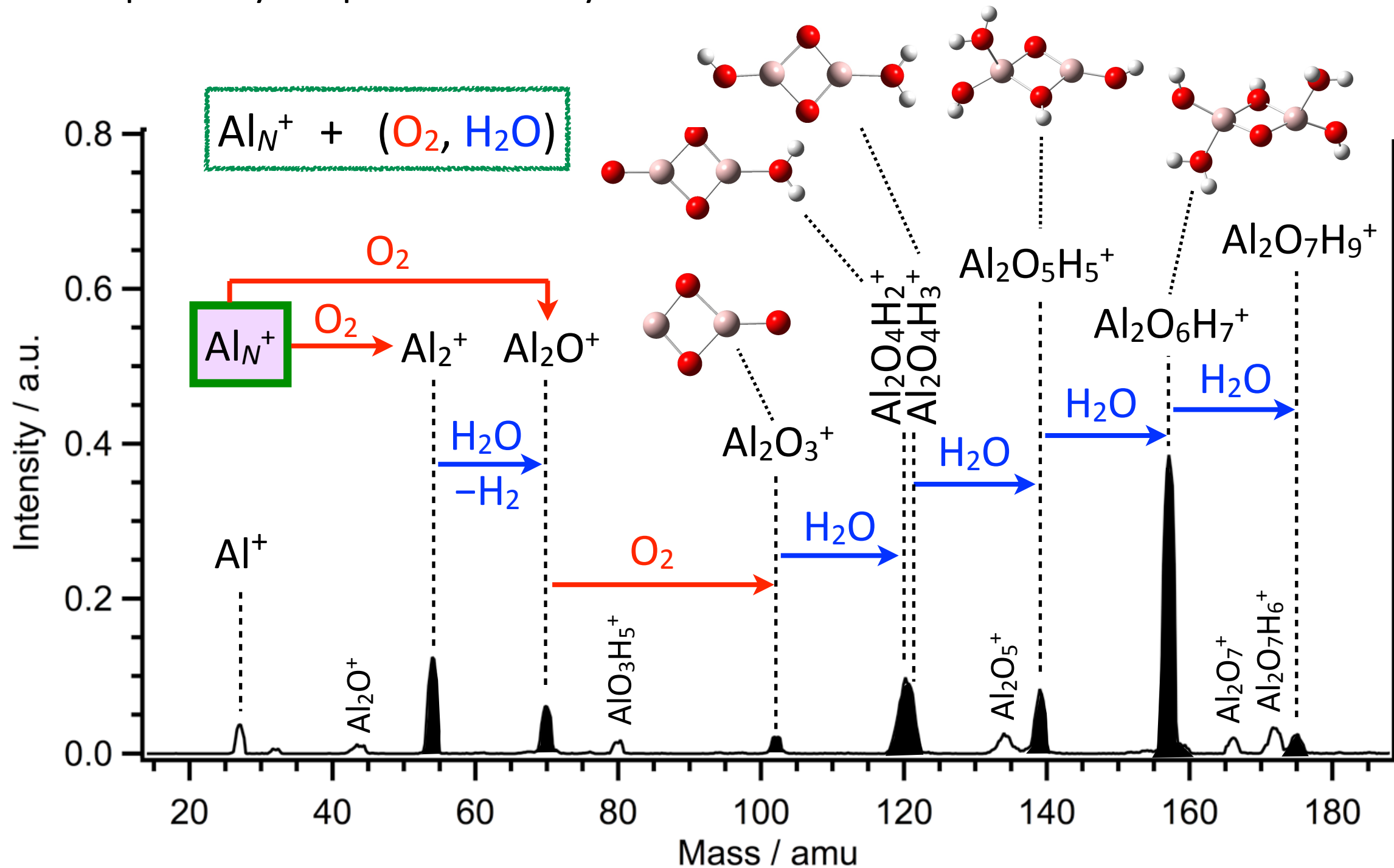


Formation of hydrated-alumina clusters

- * Hydrogenated hydrated-alumina clusters, $\text{Al}_2\text{O}_3(\text{H}_2\text{O})_n\text{H}^+$, were formed through reaction of Al_N^+ with a mixture of O_2 and H_2O .
- * Reaction pathways to produce the hydrated-alumina clusters were found as follows.



- * The finding gives molecular-level insights into formation processes of aluminum minerals in a natural environment.

(M. Arakawa, K. Kohara, and A. Terasaki., *J. Phys. Chem. C* **119**, 10981, 2015)