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From binary to ternary amalgams: expanding the structural variety of the $\text{Gd}_{14}\text{Ag}_{51}$ structure family

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Mercury-rich amalgams serve as ideal candidates for the investigation of structure-property-relationships in polar intermetallic phases. Within this compound class, the $\text{Gd}_{14}\text{Ag}_{51}$ structure represents the aristotype of many binary mercury-rich amalgams. By single-crystal and synchrotron X-ray diffraction, we have characterised three new ternary amalgams. With each compound containing more than 100 atoms per unit cell, these structures possess high structural complexity.

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