

The zeta-function of the root system of type G_2

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I discuss the values at positive integer points of the zeta-function $\zeta_2(\mathbf{s}; G_2)$ of the root system of type G_2 . In the case of even integer points it is possible to give a rather general explicit formula. But sometimes it is also possible to obtain explicit expressions for odd integer cases. I will explain the underlying root-theoretic reason of this situation. I mention how is the analogue of the so-called "parity result" in the G_2 case.

(This is a joint work with Yasushi Komori and Hirofumi Tsumura.)