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A New Binary BBP-type Formula for $\sqrt{5} \log \phi$,
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Abstract

Previously only a base 5 BBP-type formula is known for $\sqrt{5} \log \phi$, where $\phi = (\sqrt{5} + 1)/2$, the golden ratio, (i.e. Formula 83 of the April 2013 edition of Bailey’s Compendium of BBP-type formulas). In this paper we derive a new binary BBP-type formula for this constant. The formula is obtained as a particular case of a BBP-type formula for a family of logarithms.