Abstract of paper [1].

We give several asymptotic formulae for the average number of representations of an integer as a sum two prime squares. We adapt Hardy & Littlewood's original approach to additive problems with infinite series, since this method is more precise when dealing with short intervals.

References

[1] A. Languasco and A. Zaccagnini. Short intervals asymptotic formulae for binary problems with primes and powers, II: Density 1. *Monatsh. Math.*, 181(3):419–435, 2016.