# Some new estimates on Egyptian Fractions 

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#### Abstract

I shall propose the results from and ongoing project in collaboration with Cyril Banderier and Florian Luca. In particular I shall explain an upper bound for the function $A(n)$ which counts the number of positive integers $a$ such that $a / n$ is of the form $a / n=1 / m_{1}+1 / m_{2}+1 / m_{3}$ for some positive integers $m_{1}, m_{2}, m_{3}$. This improves earlier work from [1].


## References

[1] Croot, Ernest S., III; Dobbs, David E.; Friedlander, John B.; Hetzel, Andrew J.; Pappalardi, Francesco "Binary Egyptian fractions", J. Number Theory 84 (2000), no. 1, 63-79.
[2] Banderier, Cyril, Luca, Florian and Pappalardi, Francesco "The Erdős-Straus conjecture and ternary Egyptian fractions", in preparation (2018)

