Martin W. Bunder

Self matching in $\lfloor n \alpha\rfloor$,
Fibonacci Quart. 44 (2006), no. 4, 290-296.

## Abstract

For an arbitrary real number $\alpha$ with convergents $\frac{p_{0}}{q_{0}}, \frac{p_{1}}{q_{1}}, \frac{p_{2}}{q_{2}}, \ldots$, $\left\lfloor\left(n+q_{i}\right) \alpha\right\rfloor-\lfloor n \alpha\rfloor$ is equal to $p_{i}$, and so is independent of $n$, except at a small specified number of values of $n$. For fixed $n$, this relation holds for all or for all except a finite number of values of $i$.

