**Mathematics > Number Theory**

# A characterization of Büchi's integer sequences of length 3

Pablo Saéz, Xavier Vidaux

*(Submitted on 10 Nov 2010)*

We give a new characterization of generalized B\"uchi sequences (sequences whose sequence of squares has constant second difference $(a)$, for some fixed integer $a$) of length 3 over the integers and a strategy for attacking B\"uchi's n Squares Problem. Known characterizations of integer B\"uchi sequences of length 3 are actually characterizations over the rationals, plus some divisibility criterions that keep integer sequences.

**Submission history**

From: Xavier Vidaux [view email]
**[v1]** Wed, 10 Nov 2010 01:34:52 GMT (18kb)

*Which authors of this paper are endorsers?*

## Download:

- PDF
- PostScript
- Other formats

Current browse context:

**math.NT**

**< prev | next >**

new | recent | 1011

Change to browse by:

math

References & Citations

- NASA ADS

Bookmark(what is this?)