## Mathematics > Group Theory

## Linear estimates for solutions of quadratic equations in free groups

Olga Kharlampovich, Alina Vdovina
(Submitted on 14 Jul 2011)
We prove that in a free group the length of the value of each variable in a minimal solution of a standard quadratic equation is bounded by $\$ 2 s \$$ for orientable equation and by $\$ 12 s^{\wedge} 4 \$$ for non-orientable equation, where $\$ \mathbf{\$} \$$ is the sum of the lengths of the coefficients

Subjects: Group Theory (math.GR)
Cite as: arXiv:1107.2843 [math.GR] (or arXiv:1107.2843v1 [math.GR] for this version)

## Download:

- PDF
- PostScript
- Other formats

Current browse context: math.GR
< prev | next > new | recent | 1107

Change to browse by: math

References \& Citations

- NASA ADS

Bookmark(what is this?)


```
*)
```


## Submission history

From: Olga Kharlampovich [view email]
[v1] Thu, 14 Jul 2011 14:52:43 GMT (19kb)

Which authors of this paper are endorsers?

Link back to: arXiv, form interface, contact.

