

Mathematics  
> Differential  
Geometry

# Short loop

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## References & Citations

- [NASA ADS](#)

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# decompositions of surfaces and the geometry of Jacobians

[Florent](#)

[Balacheff, Hugo](#)

[Parlier,](#)

# Stéphane Sabourau

*(Submitted on 12  
Nov 2010)*

Given a  
Riemannian  
surface,  
we  
consider  
a  
naturally  
embedded  
graph  
which  
captures  
part of  
the  
topology  
and  
geometry  
of the  
surface.  
By  
studying  
this  
graph,  
we  
obtain  
results in  
three  
different  
directions.

First, we

find  
bounds  
on the