



# Local convexity properties of Apollonian and Seittenranta's metric balls

Riku Klén

(Submitted on 2 Apr 2012 (v1), last revised 16 Aug 2012 (this version, v2))

We consider local convexity properties of balls in the Apollonian and Seittenranta's metrics. Balls in the Apollonian metric are considered in the twice punctured space and starlike domains. Balls in Seittenranta's metric are considered in the twice punctured space and in the punctured ball.

Comments: 11 pages, 3 figures

Subjects: **Metric Geometry (math.MG)**

MSC classes: 30C60, 51M10, 30F45

Cite as: **arXiv:1204.0329 [math.MG]**

(or **arXiv:1204.0329v2 [math.MG]** for this version)

## Submission history

From: Riku Klén [[view email](#)]

[v1] Mon, 2 Apr 2012 07:27:31 GMT (33kb)

[v2] Thu, 16 Aug 2012 05:30:19 GMT (35kb)

*Which authors of this paper are endorsers?*

Link back to: [arXiv](#), [form interface](#), [contact](#).

## Download:

- [PDF](#)
- [PostScript](#)
- [Other formats](#)

Current browse context:

math.MG

[< prev](#) | [next >](#)

[new](#) | [recent](#) | [1204](#)

Change to browse by:

[math](#)

## References & Citations

- [NASA ADS](#)

Bookmark([what is this?](#))

