

## **UV and X-ray imaging of aurora and other atmospheric phenomena**

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### **Abstract**

In this paper I will present some results from UV and X-ray imaging of aurora and illustrate how these two imaging techniques are complementary. While imaging auroral UV emissions provide information about electron energies below 50 keV, the X-ray imaging give information about energies up to 100 keV. Thus, by combining these two imaging techniques we obtain information about all the electron energies important for magnetosphere-ionosphere coupling, as well as atmospheric effects of particle precipitation. We are now developing an X-ray instrument for imaging terrestrial gamma ray flashes, and I will show how a pixelated detector combined with a coded mask enables imaging of this very energetic photon phenomenon.

## 5. Equations

Below, you will find examples of two equations. You should use an equation editor of your word-processing program in order to include your equation(s). The equation number should be placed at the right side of the column and all equations should be consecutively numbered.

$$a^2 + b^2 = c^2 \quad (1)$$

$$E = m \cdot c^2 \quad (2)$$

## 6. Summary and Conclusions

After having finished your paper in your word-processing program, please create a respective pdf file out of the document. The correct page settings of 237 (height) x 180 (width) mm are included in the template document. **Please make sure that the generated pdf file actually has a page size of 237 x 180 mm.** This is the only way to guarantee the proper inclusion of your paper in the Copernicus Office database. Please note that you are asked to upload a pdf file during the abstract submission in Copernicus Office. No other file type than .pdf is accepted for the file upload. The actual citation header will be added automatically!

## Acknowledgements

The Acknowledgements section should not be numbered. Here, you may include all persons or institutions which you would like to thank. We recommend that the abstract is carefully compiled and thoroughly checked, in particular with regard to the list of authors, **before** submission.

## References

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