

Test of Authorea to Write a Scientific Paper

Hiroki Kashimura¹, ykawai¹, and ykawai¹

¹Affiliation not available

August 9, 2018

Abstract

This is a test of the Abstract. 日本ha?

1 Introduction

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$$\int_a^b u \frac{d^2 v}{dx^2} dx = u \frac{dv}{dx} \Big|_a^b - \int_a^b \frac{du}{dx} \frac{dv}{dx} dx. = hogehoge \quad (1)$$

2 Section

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Citation test

Table 1: Different quantities and qualities of T_{shell}

Heading	r_c (km)	T_{shell} (s)	t_{waves} (s)	$\mathcal{M}$	ω_c (rad/s)	P_{min} (s)	$P_{\text{min,Fe}}$ (s)	$P_{\text{min,NS}}$ (s)
Row	1.6×10^7	4×10^{13}	2×10^5	0.06	3×10^{-6}	2×10^5	40	2×10^{-3}
Row	9.7×10^3	3×10^8	10^6	0.002	4×10^{-3}	2×10^3	50	2.5×10^{-3}
Row	3.6×10^3	4×10^6	10^5	0.004	2×10^{-2}	-	-	-
Row	1.7×10^3	7×10^3	2×10^3	0.02	4×10^{-1}	-	-	-

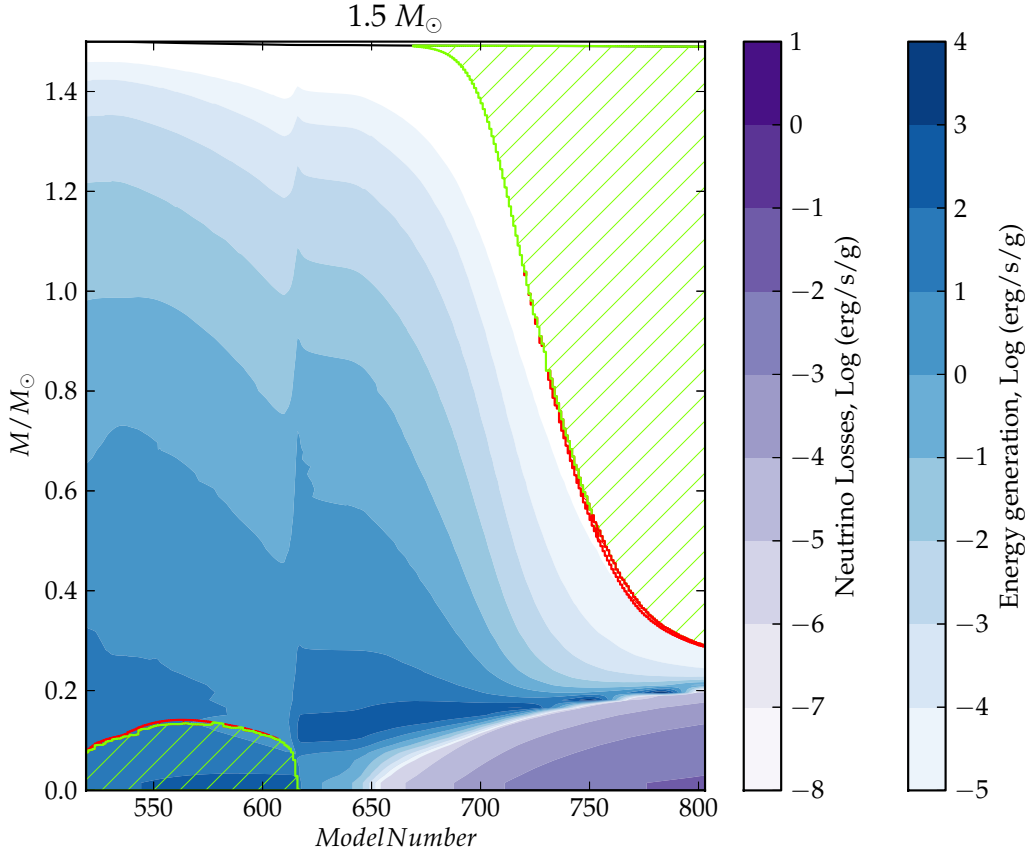


Figure 1: Lorem ipsum dolor sit amet, consectetur adipiscing elit. Cras egestas auctor molestie. In hac habitasse platea dictumst. $\hat{f}(\omega) = \frac{1}{2\pi}$ Lorem ipsum dolor sit amet, consectetur adipiscing elit. Cras egestas auctor molestie. In hac habitasse platea dictumst. Cras egestas auctor molestie.

3 Next Section

Mauris nec massa leo. Mauris ac diam auctor nisl imperdiet porta. Sed sit amet neque eget nisi dictum placerat. Duis sit amet pellentesque odio. Cras scelerisque sem a consectetur vehicula. Aliquam interdum luctus fringilla. Nunc sollicitudin, lorem in semper viverra, [1], dui nisi sodales sem, ut condimentum erat leo eget arcu [1, 2]. Donec pharetra aliquam metus, non pulvinar tellus interdum a. Mauris a ante pharetra, mollis enim in, eleifend erat. Pellentesque suscipit risus massa, non vestibulum libero euismod feugiat. In hac habitasse platea dictumst. Maecenas rutrum lobortis lobortis. Vestibulum convallis porttitor sem ac ultricies. Mauris volutpat fringilla nisl blandit semper. Proin nec iaculis sem. Aenean neque ipsum, pretium a faucibus non, tincidunt ut sapien. [3]

4 Non-LaTeX Section

Integer in metus aliquam, cursus dolor eu, **maximus arcu**. Integer vel finibus odio. Maecenas sit amet rhoncus purus. Ut molestie augue vel magna rutrum fermentum. Curabitur eleifend, nisl non rutrum auctor, diam sapien rutrum purus, quis dictum erat leo in leo. Vestibulum semper, velit non malesuada sagittis, tortor dolor sollicitudin enim, sed ullamcorper tellus diam vitae est. Nullam auctor dui ac ultricies porta. Aliquam erat volutpat. Maecenas finibus ultrices felis eu congue. Integer pulvinar, elit sed mollis aliquet, magna turpis molestie nisi, sed auctor justo massa vitae felis. Vivamus dui justo, auctor non magna eget, varius dapibus augue. [4]. hoge[5]

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p "hello world!"
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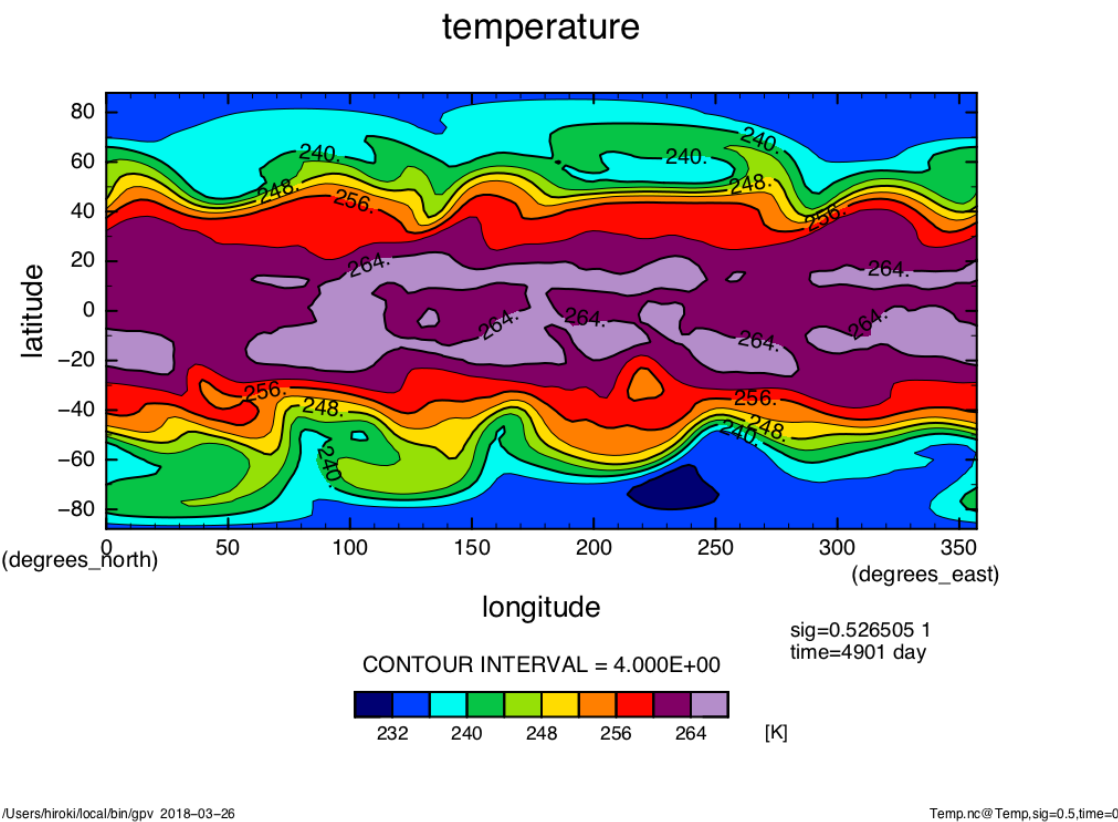


Figure 2: This is a caption

5 Hello. This is a pen.

korehatesutodesu ◦

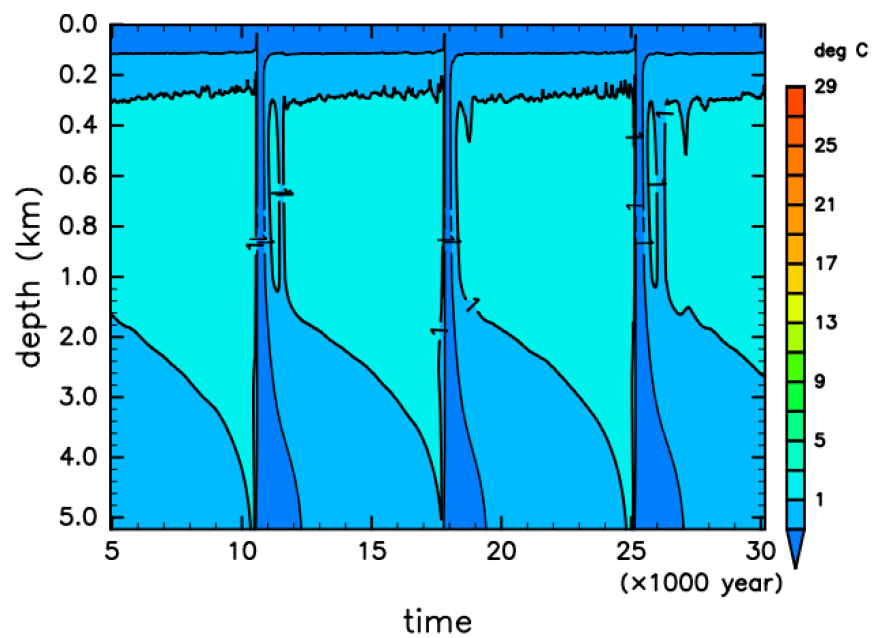


Figure 3: This is a caption

References

- [1] Peter Goldreich and Pawan Kumar. Wave generation by turbulent convection. *The Astrophysical Journal*, 363:694, nov 1990.
- [2] Pawan Kumar, Peter Goldreich, and Richard Kerswell. Effect of nonlinear interactions on p-mode frequencies and line widths. *The Astrophysical Journal*, 427:483, may 1994.
- [3] H Ando, N Sugimoto, M Takagi, H Kashimura, T Imamura, and Y Matsuda. The puzzling Venusian polar atmospheric structure reproduced by a general circulation model. *Nat Commun*, 7:10398, Feb 2016.
- [4] Norihiko Sugimoto, Masahiro Takagi, and Yoshihisa Matsuda. Baroclinic instability in the Venus atmosphere simulated by GCM. *Journal of Geophysical Research: Planets*, 119(8):1950–1968, aug 2014.
- [5] R Ishiwatari, M Ishiwatari, B.G Rohrback, and I.R Kaplan. Thermal alteration experiments on organic matter from recent marine sediments in relation to petroleum genesis. *Geochimica et Cosmochimica Acta*, 41(6):815–828, jun 1977.