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Letter | Published: 23 February 2017

### Seven temperate terrestrial planets around the nearby ultracool dwarf star TRAPPIST-1

Michaël Gillon, Amaury H. M. J. Triaud, Brice-Olivier Demory, Emmanuel Jehin, Eric Agol, Katherine M. Deck, Susan M. Lederer, Julien de Wit, Artem Burdanov, James G. Ingalls, Emeline Bolmont, Jeremy Leconte, Sean N. Raymond, Franck Selsis, Martin Turbet, Khalid Barkaoui, Adam Burgasser, Matthew R. Burleigh, Sean J. Carey, Aleksander Chaushev, Chris M. Copperwheat, Laetitia Delrez, Catarina S. Fernandes, Daniel L. Holdsworth, ... Didier Queloz + Show authors

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Abstract

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Editorial Summary

Seven Earth-like planets around a nearby dwarf star

Michaël Gillon *et al.* report the results of a photometric monitoring campaign of the star TRAPPIST-1 from the ground and space. They reveal that at least seven planets with sizes and masses similar to Earth revolve around this Jupiter-sized star. These planets all have

https://arxiv.org/pdf/1703.01424

## Seven temperate terrestrial planets around the nearby ultracool dwarf star TRAPPIST-1

Michaël Gillon<sup>1</sup>, Amaury H. M. J. Triaud<sup>2</sup>, Brice-Olivier Demory<sup>3,4</sup>, Emmanuël Jehin<sup>1</sup>, Eric Agol<sup>5,6</sup>, Katherine M. Deck<sup>7</sup>, Susan M. Lederer<sup>8</sup>, Julien de Wit<sup>9</sup>, Artem Burdanov<sup>1</sup>, James G. Ingalls<sup>10</sup>, Emeline Bolmont<sup>11,12</sup>, Jeremy Leconte<sup>13</sup>, Sean N. Raymond<sup>13</sup>, Franck Selsis<sup>13</sup>, Martin Turbet<sup>14</sup>, Khalid Barkaoui<sup>15</sup>, Adam Burgasser<sup>16</sup>, Matthew R. Burleigh<sup>17</sup>, Sean J. Carey<sup>10</sup>, Aleksander Chaushev<sup>17</sup>, Chris M. Copperwheat<sup>18</sup>, Laetitia Delrez<sup>1,4</sup>, Catarina S. Fernandes<sup>1</sup>, Daniel L. Holdsworth<sup>19</sup>, Enrico J. Kotze<sup>20</sup>, Valérie Van Grootel<sup>1</sup>, Yaseen Almleaky<sup>21,22</sup>, Zouhair Benkhaldoun<sup>15</sup>, Pierre Magain<sup>1</sup>, Didier Queloz<sup>4,23</sup>

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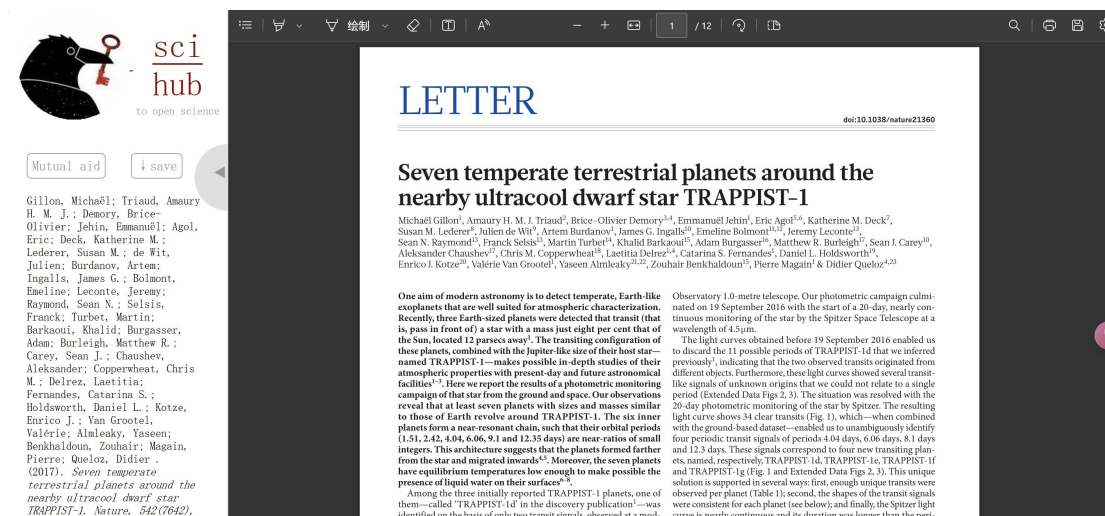
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2 中子-γ融合测井相关基础理论

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铀裂变瞬发中子-γ融合测井定量修正方法研究

周鹏飞

东华理工大学

**摘要:** 铀裂变瞬发中子-γ融合测井技术是当前较为先进的铀矿定量测井技术,继承了单一中子测井和γ测井技术的优点,摒弃了各自存在的缺点,如效率低、成本高、周期长等,可以快速、准确、方便地实现铀定量解释,相比传统的铀矿测井方法,具有重大技术优势。本文首先综述了目前国内外中子测井和γ测井定量理论和方法,以及铀定量解释结果误差产生的原因和影响因素,简要论述了铀裂变瞬发中子-γ融合测井技术的理论基础,重点分析了铀定量解释结果的影响因素。在此基础上,论文重点研究了融合测井仪(型号UNL-H1)中子探测器死时间的求取及双能中子时间谱的修正方法、测井环境对双能中子时间谱的影响与修正方法。研究成果将有效提高铀裂变瞬发中子-γ融合测井定量解释结果的精度。主要研究内容和成果有:1)分析双能中子的时间特性、计数率涨落及本底值等因素对铀定量最佳时段的影响,探讨双能中子时间谱特征信息提取方法,确定了融合测井仪双能中子时间谱的铀定量最佳时段;2)重点研究了中子探测器死时间的求取方法,探求了脉冲“双体源”法求死时间的原理、方法和步骤,以及关键技术要点。研究表明:窗口大小、两窗距离、两体源中子计数率差等因素对死时间计算结果影响...

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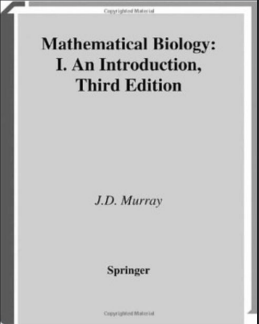
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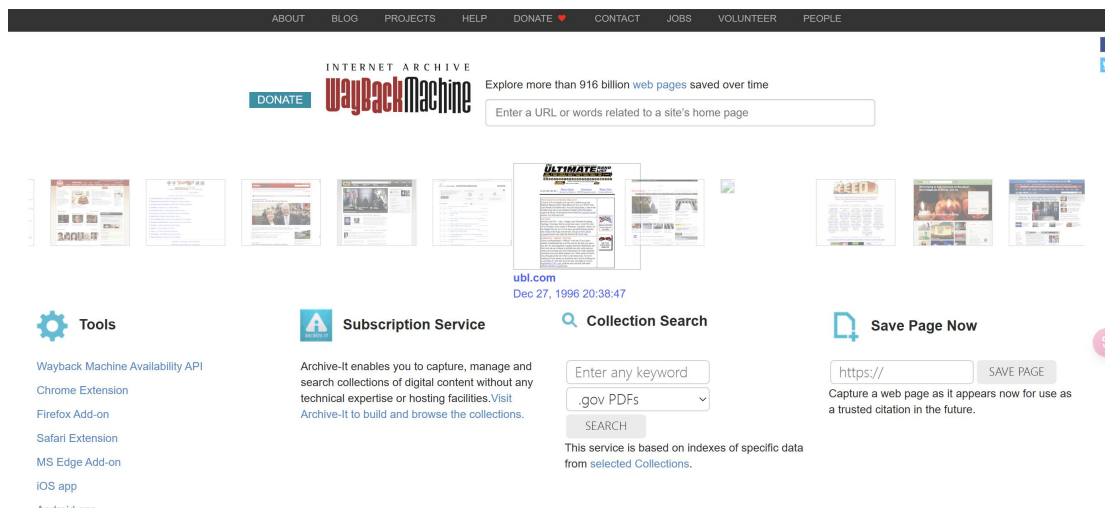
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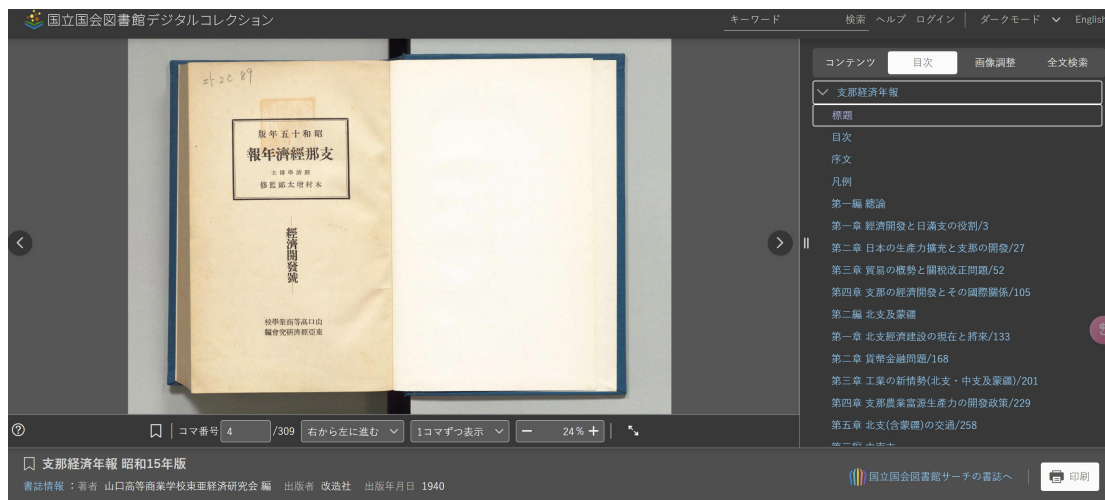
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# Seven temperate terrestrial planets around the nearby ultracool dwarf star TRAPPIST-1

Gillon, Michaël; Deck, Katherine M.; Ingalls, James G.; Carey, Sean J.

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