**KOLLOQUIUM PHYSIK**

<table>
<thead>
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<th>Thema</th>
<th>The First Detections of Gravitational Waves</th>
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| Vortragender | Dr. Andrew Lundgren  
    Albert-Einstein-Institut, Hannover |
| Ort | Hörsaalgebäude II  
    Hörsaal 2 |
    16:30 Uhr |
| Kolloquiums-Kaffee ab 16:00 Uhr | im Raum P2-E0-414  
(Alle sind herzlich eingeladen) |

Im Auftrag der Dozenten der Fakultät Physik  
Der Dekan

Einladender: Prof. Dr. Joachim Brod
One hundred years ago, gravitational waves were predicted according to the theory of General Relativity. Last September, these tiny ripples in space-time were observed for the first time. The two Advanced LIGO instruments detected the merger of two black holes, each thirty times the mass of the Sun. In December, another pair of black holes, less massive this time, was also clearly detected. I'll talk about the development of the instruments that made these detections possible, about what we can reconstruct about these signals, and about the future of the field of gravitational-wave astronomy.