# Poster session I: Teaching resources

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| **1.01** | Markus Pössel | **Relative motion in general relativity: The case of cosmic expansion** |
| **1.02** | Lorenzo Galante | **From the EP to the curved space** |
| **1.03** | Hans-Peter Nollert | **Teaching General Relativity using ruler and calculator: An interactive workshop based on the Shapiro effect** |
| **1.04** | Richard Toellner | **The Milne universe** |
| **1.05** | Matěj Ryston | **Embedding diagrams and other hands-on activities for teaching curvature** |
| **1.06** | Efstratios Kapotis | **Educational experimentation and simulations for teaching General Relativity. Implementation and Evaluation** |
| **1.07** | Sven Weissenborn | **Virtual sector models (ViSeMo)** |
| **1.08** | Stuart Farmer | **Developing a teacher professional learning workshop on General Relativity** |
| **1.09** | Michael Schultz | **Teaching 2nd year undergraduates how to derive and study the geodesic equations for the Schwarzschild black hole** |
| **1.10** | Aroonkumar Beesham | **Teaching of general relativity at the University of Zululand** |
| **1.11** | Eugene Kogan | **Derivation of Schwarzschild metrics using differential forms** |
| **1.12** | Yurii Dumin | **A quasi-newtonian basis for studying the relativistic cosmology** |
| **1.13** | Floor Kamphorst | **Event diagrams – supporting student reasoning in space-time** |
| **1.14** | Essam Zoabi | **Simple mechanical model for explaining the increase of the relativistic mass** |
| **1.15** | Roberto Salgado | **Relativity on rotated graph paper** |

# Poster session II: Design, evaluation, programs

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| **2.01** | Shachar Boublil | **Analysis and reflection on the teaching of Einstein's theory of gravity in Quebec** |
| **2.02** | Stanley Delhaye | **Design of a prototype for teaching general relativity to upper secondary students** |
| **2.03** | Ian Lawrence | **Light cones for reasoning about space and time** |
| **2.04** | Li Ju | **Gravitational waves: A vehicle for the integrated teaching of Einsteinian physics** |
| **2.05** | Chris North | **Increasing the relevance of high school studies to cutting edge gravitational wave research** |
| **2.06** | Rahul Choudhary | **Integrating Einstein-first resources with international collaboration on Einsteinian physics** |
| **2.07** | Gary Foster | **Teaching Einsteinian science at Guildford Grammar** |
| **2.08** | Richard Meagher | **Do modern high school students want to study modern physics?** |
| **2.09** | Fadeel Joubran | **Comparison between Israeli and Hungarian physics high school teachers' attitudes towards GR assimilation in the curriculum** |
| **2.10** | Stephan Preiß | **A comparison between standard courses about general relativity and a model-based approach** |
| **2.11** | Thomas Reiber | **Flying through a Kerr black hole – Visualizations** |
| **2.12** | Pierre Martin-Dussaud | **L'Agape: Renewing conferences format** |
| **2.13** | Amber Strunk | **Supporting general relativity curriculum through teacher professional development** |
| **2.14** | Magdalena Kersting (presentation)<br>Jacqueline Bondell/ Mark Myers (authors) | **Bringing the Virtual Universe Into the STEM Classroom** |