USAYPT Juror Form – REPORTER: _____ **FINAL SCORE:** _____

Round #: _____ **Problem Name:** _____ **Juror Name:** _____

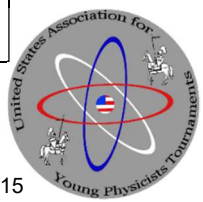
Theoretical Solution	Theory	Experimental Evidence	Expt	Questions & Answers	Q&A
EXCELLENT: ***clear, comprehensive, and detailed solution*** -- ***all*** *approximations* and assumptions are stated and relevant -- ***all*** *concepts* and principles used are stated clearly and relevant -- mathematical model is extensive, explained clearly, and shows ***excellent*** understanding	**4** **3-1/2**	**EXCELLENT:** ***extensive experiments with advanced data acquisition, analysis, and presentation*** -- design is ***extensive*** realization of theory model -- uses ***advanced*** data acquisition techniques -- uses ***advanced*** data analysis techniques -- presents data in ***appropriate and easily understood*** forms -- compares theory and data ***properly***	**4** **3-1/2**	**EXCELLENT:** ***demonstrates deep understanding of the relevant physics in defense of the solution***	**2** **1-1/2**
GOOD: ***partially clear, but comprehensive and detailed solution*** -- ***most*** approximations and assumptions are stated and relevant -- ***most*** concepts and principles used are stated and relevant -- mathematical model is ***partially*** developed, explained, and shows ***good*** understanding	**3** **2-1/2**	**GOOD:** ***partial experiments with advanced data acquisition, analysis, advanced presentation*** -- design is ***partial*** realization of theory model -- uses ***advanced*** data acquisition techniques -- uses ***advanced*** data analysis techniques -- presents data in ***appropriate and easily understood*** forms -- compares theory and data ***properly***	**3** **2-1/2**	**BASIC:** ***demonstrates basic understanding of the relevant physics in defense of the solution***	**1** **1/2**
BASIC: ***partially clear, but not comprehensive nor detailed solution*** -- ***some*** approximations and assumptions are stated and relevant -- ***some*** concepts and principles used are stated and relevant -- mathematical model is partially developed, explained, and shows ***basic*** understanding	**2** **1-1/2**	**BASIC:** ***partial experiments with limited data acquisition and analysis, and basic presentation*** -- design is ***basic*** realization of theory model -- uses ***limited*** data acquisition techniques -- uses ***limited*** data analysis techniques -- presents data in ***basic*** forms -- compares theory and data ***properly***	**2** **1-1/2**	**UNACCEPTABLE:** ***has extreme difficulty handling questions***	**0**
POOR: ***unclear, not comprehensive, nor detailed solution*** -- ***few*** approximations and assumptions are stated and relevant -- ***few*** concepts and principles used are stated and relevant -- mathematical model is ***shallow***, poorly explained, and shows ***little*** understanding	**1** **1/2**	**POOR:** ***flawed experiments with inadequate data acquisition, analysis, and presentation*** -- design is ***flawed*** realization of theory model -- uses ***inadequate*** data acquisition techniques -- uses ***inadequate*** data analysis techniques -- presents data in ***inappropriate*** forms -- compares theory and data ***inappropriately***	**1** **1/2**	***CONSIDERATIONS – during the reporter's defense of the solution:*** -- How does the reporter identify and use the applicable principles of physics? -- How does the reporter explain the theoretical model's conclusions? -- How does the reporter explain the experimental apparatus and the data obtained? -- How does the reporter use their data to support their conclusions? -- How does the reporter handle questions they were not prepared for? -- How does the reporter listen, speak, and maintain poise?	
UNACCEPTABLE: ***no relevant theoretical solution***	**0**	**UNACCEPTABLE:** ***no relevant experimental evidence***	**0**	-- How does the reporter use impromptu visual aids in defending their solution?	

USAYPT Juror NOTES on Presentation

USAYPT Juror Form – OPPONENT: _____ **FINAL SCORE:** _____

Round #: _____ **Problem Name:** _____ **Juror Name:** _____

Analysis of Reporter's Theoretical Solution	**Theory**	**Analysis of Reporter's Experimental Evidence**	**Expt**	**Questions & Answers**	**Q&A**
EXCELLENT: ***totally clear analysis of the strengths and weaknesses of the reporter's theoretical solution*** -- analysis of the reporter's theoretical solution's assumptions and approximations is ***totally clear*** -- opponent's understanding of relevant concepts and principles is ***deep*** -- opponent's questions and statements are ***detailed and insightful***	**3** **2-1/2**	**EXCELLENT:** ***totally clear analysis of the strengths and weaknesses of the reporter's experimental evidence*** -- analysis of the reporter's experimental design is ***totally clear*** -- analysis of the reporter's data and its validity is ***totally clear*** -- opponent's questions for the discussion are ***detailed and insightful***	**3** **2-1/2**	**EXCELLENT**: ***demonstrates deep understanding of the relevant physics in discussing the solution with the reporter*** -- uses the questions developed in the analysis to ***completely uncover*** the strengths and weaknesses of the report -- ***does not*** introduce own research	**4** **3-1/2**
				GOOD: ***demonstrates good understanding of the relevant physics in discussing the solution with the reporter*** -- uses the questions developed in the analysis to ***partially uncover*** the strengths and weaknesses of the report -- ***does*** introduce some of own research	**3** **2-1/2**
BASIC: ***partially clear analysis of the strengths and weaknesses of the reporter's theoretical solution*** -- analysis of the reporter's theoretical solution's assumptions and approximations is ***partially clear*** -- opponent's understanding of relevant concepts and principles is ***basic*** -- opponent's questions and statements are ***partially detailed***	**2** **1-1/2**	**BASIC:** ***partially clear analysis of the strengths and weaknesses of the reporter's experimental evidence*** -- analysis of the reporter's experimental design is ***partially clear*** -- analysis of the reporter's data and its validity is ***partially clear*** -- opponent's questions for the discussion are ***partially detailed***	**2** **1-1/2**	**BASIC:** ***demonstrates basic understanding of the relevant physics in discussing the solution with the reporter*** -- uses the questions developed in the analysis to ***uncover only basic*** strengths and weaknesses of the report -- ***does*** introduce ***much*** of own research	**2** **1-1/2**
POOR: ***incomplete analysis of the strengths and weaknesses of the reporter's theoretical solution*** -- analysis of the reporter's theoretical solution's assumptions and approximations is ***incomplete*** -- opponent's understanding of relevant concepts and principles is ***incomplete*** -- opponent's questions and statements are ***poor or shallow***	**1** **1/2**	**POOR:** ***incomplete analysis of the strengths and weaknesses of the reporter's experimental evidence*** -- analysis of the reporter's experimental design is ***incomplete*** -- analysis of the reporter's data and its validity is ***incomplete*** -- opponent's questions for the discussion are ***poor or shallow***	**1** **1/2**	**POOR:** ***demonstrates little understanding of the relevant physics in discussing the solution with the reporter*** -- *does* ***not*** *use* the questions developed in the critique to ***uncover*** the strengths and weaknesses of the report -- introduces own research	**1** **1/2**
UNACCEPTABLE: ***no relevant analysis of theoretical solution***	**0**	**UNACCEPTABLE:** ***no relevant analysis of the experimental evidence***	**0**	**UNACCEPTABLE:** ***has extreme difficulty leading the discussion and handling questions***	**0**



USAYPT Juror NOTES on Opposition

USAYPT Juror Form – POSTER – TEAM NAME: _____ **FINAL SCORE:** _____

Poster Session **Problem Name:** _____ **Juror Name:** _____

Poster's Theoretical Solution	Theory	Poster's Experimental Evidence	Expt	Questions & Answers	Q&A
EXCELLENT: ***clear, comprehensive, and detailed solution*** -- ***all*** *approximations* and assumptions are stated and relevant -- ***all*** *concepts* and principles used are stated clearly and relevant -- mathematical model is extensive, explained clearly, and shows ***excellent*** understanding	**3** **2-1/2**	**EXCELLENT:** ***extensive experiments with advanced data acquisition, analysis, and presentation*** -- design is ***extensive*** realization of theory model -- uses ***advanced*** data acquisition techniques -- uses ***advanced*** data analysis techniques -- presents data in ***appropriate and easily understood*** forms -- compares theory and data ***properly***	**3** **2-1/2**	**EXCELLENT:** ***demonstrates deep understanding of the relevant physics in defense of the solution***	**4**
				GOOD: ***demonstrates partially clear, but comprehensive and detailed solution***	**3**
GOOD: ***partially clear, but comprehensive and detailed solution*** -- ***most*** approximations and assumptions are stated and relevant -- ***most*** concepts and principles used are stated and relevant -- mathematical model is ***partially*** developed, explained, and shows ***good*** understanding	**2** **1-1/2**	**GOOD:** ***partial experiments with advanced data acquisition, analysis, advanced presentation*** -- design is ***partial*** realization of theory model -- uses ***advanced*** data acquisition techniques -- uses ***advanced*** data analysis techniques -- presents data in ***appropriate and easily understood*** forms -- compares theory and data ***properly***	**2** **1-1/2**	**BASIC:** ***demonstrates basic understanding of the relevant physics in defense of the solution***	**2**
				POOR: ***demonstrates little understanding of the relevant physics in discussing the solution***	**1**
				UNACCEPTABLE: ***has extreme difficulty handling questions***	**0**
BASIC: ***partially clear, but not comprehensive nor detailed solution*** -- ***some*** approximations and assumptions are stated and relevant -- ***some*** concepts and principles used are stated and relevant -- mathematical model is partially developed, explained, and shows ***basic*** understanding	**1** **1/2**	**BASIC:** ***partial experiments with limited data acquisition and analysis, and basic presentation*** -- design is ***basic*** realization of theory model -- uses ***limited*** data acquisition techniques -- uses ***limited*** data analysis techniques -- presents data in ***basic*** forms -- compares theory and data ***properly***	**1** **1/2**	***CONSIDERATIONS – during the presenter's answers:*** -- How does the presenter ... - identify and use the applicable principles of physics? - explain the theoretical model's conclusions? - explain the experimental apparatus and the data obtained? - use their data to support their conclusions? - handle questions they were not prepared for? - listen, speak, and maintain poise? - use impromptu visual aids in defending their solution?	
POOR: ***unclear, not comprehensive, nor detailed solution*** -- ***few*** approximations and assumptions are stated and relevant -- ***few*** concepts and principles used are stated and relevant -- mathematical model is ***shallow***, poorly explained, and shows ***little*** understanding	**0**	**POOR:** ***flawed experiments with inadequate data acquisition, analysis, and presentation*** -- design is ***flawed*** realization of theory model -- uses ***inadequate*** data acquisition techniques -- uses ***inadequate*** data analysis techniques -- presents data in ***inappropriate*** forms -- compares theory and data ***inappropriately***	**0**		
UNACCEPTABLE: ***no relevant theoretical solution***		**UNACCEPTABLE:** ***no relevant experimental evidence***			

USAYPT Juror NOTES on Poster