

**USAYPT Juror Form – REPORTER:**

**FINAL SCORE:**

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

JUROR: \_\_\_\_\_

*USAYPT 2006 Juror NOTES on presentation by* \_\_\_\_\_ *of Problem#* \_\_\_\_\_

Theoretical Solution	Theory	Experimental Evidence	Expt	Questions & Answers	Q&A

JUROR: \_\_\_\_\_

**USAYPT Juror Form – OPPONENT:**

**FINAL SCORE:**

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

JUROR: \_\_\_\_\_

*USAYPT Juror NOTES on opposition by*

*of Problem#*

Theoretical Solution	Theory	Experimental Evidence	Expt	Questions & Answers	Q&A

*USAYPT 2006 Juror Form – POSTER:*

**FINAL SCORE:** \_\_\_\_\_

Poster's Theoretical Solution	Th pt	Poster's Experimental Evidence	Ex pt	Questions & Answers	Q&A
<b>EXCELLENT:</b> <i>clear, comprehensive, and detailed solution</i> -- <i>all</i> approximations and assumptions are stated and relevant -- <i>all</i> concepts and principles used are stated clearly and relevant -- mathematical model is extensive, explained clearly, and shows <b>excellent</b> understanding	3	<b>advanced data acquisition, analysis, and presentation</b> - design is <b>extensive</b> realization of theory model - uses <b>advanced</b> data acquisition techniques - uses <b>advanced</b> data analysis techniques	3	<b>EXCELLENT:</b> <i>demonstrates deep understanding of the relevant physics in defense of the solution</i>	4
<b>GOOD:</b> <i>partially clear, but comprehensive and detailed solution</i> -- <i>most</i> approximations and assumptions are stated and relevant -- <i>most</i> concepts and principles used are stated and relevant -- mathematical model is <b>partially</b> developed, explained, and shows <b>good</b> understanding	2-1/2	<b>GOOD: partial experiments with advanced data acquisition, analysis, advanced presentation</b> - design is <b>partial</b> realization of theory model - uses <b>advanced</b> data acquisition techniques - uses <b>advanced</b> data analysis techniques - presents data in <b>appropriate and easily understood</b> forms - compares theory and data <b>properly</b>	2-1/2	<b>GOOD:</b> <i>demonstrates partially clear, but comprehensive and detailed solution</i>	3
<b>GOOD:</b> <i>partially clear, but not comprehensive nor detailed solution</i> -- <i>most</i> approximations and assumptions are stated and relevant -- <i>most</i> concepts and principles used are stated and relevant -- mathematical model is <b>partially</b> developed, explained, and shows <b>good</b> understanding	2	<b>GOOD: partial experiments with advanced data acquisition, analysis, advanced presentation</b> - design is <b>partial</b> realization of theory model - uses <b>advanced</b> data acquisition techniques - uses <b>advanced</b> data analysis techniques - presents data in <b>appropriate and easily understood</b> forms - compares theory and data <b>properly</b>	2	<b>BASIC:</b> <i>demonstrates basic understanding of the relevant physics in defense of the solution</i>	2
<b>BASIC:</b> <i>partially clear, but not comprehensive nor detailed solution</i> -- <i>some</i> approximations and assumptions are stated and relevant -- <i>some</i> concepts and principles used are stated and relevant -- mathematical model is <b>partially</b> developed, explained, and shows <b>basic</b> understanding	1-1/2	<b>BASIC: partial experiments with limited data acquisition and analysis, and basic presentation</b> - design is <b>basic</b> realization of theory model - uses <b>limited</b> data acquisition techniques - uses <b>limited</b> data analysis techniques - presents data in <b>basic</b> forms - compares theory and data <b>properly</b>	1-1/2	<b>UNACCEPTABLE:</b> <i>has extreme difficulty handling questions</i>	1
<b>POOR:</b> <i>unclear, not comprehensive, nor detailed solution</i> -- <i>few</i> approximations and assumptions are stated and relevant -- <i>few</i> concepts and principles used are stated and relevant -- mathematical model is <b>shallow</b> , poorly explained, and shows <b>little</b> understanding	1	<b>POOR: flawed experiments with inadequate data acquisition, analysis, and presentation</b> - design is <b>flawed</b> realization of theory model - uses <b>inadequate</b> data acquisition techniques - uses <b>inadequate</b> data analysis techniques - presents data in <b>inappropriate</b> forms -- compares theory and data <b>inappropriately</b>	1	<b>CONSIDERATIONS – during the reporter's defense of the solution:</b> -- 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? -- how does the reporter use impromptu visual aids in defending their solution?	
<b>UNACCEPTABLE:</b> <i>no relevant theoretical solution</i>	0	<b>UNACCEPTABLE: no relevant experimental evidence</b>	0		

JUROR: \_\_\_\_\_

*USAYPT Juror NOTES on poster by* \_\_\_\_\_ *of Problem#* \_\_\_\_\_

Theoretical Solution	Theory	Experimental Evidence	Expt	Questions & Answers	Q&A