Theoretical Competition: 12 July 2011

Student Code ☐☐☐–☐

Question Number **2**

IPhO 42
International
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## ANSWER SHEET

2.1 $\dfrac{\rho_i T_i}{\rho_a T_a} =$

2.2 The numerical value of $\dfrac{\rho_i T_i}{\rho_a T_a} - 1$ is

2.3 The minimum value of $T_i$ is

2.4 The minimum velocity $u$ is

2.5 The numerical value of $u$ is

2.6 An equation describing $R_1$ is

2.7 $\Delta R$ is given by

2.8 The expression for $q$ is

The numerical value of $q$ is

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