

## Personal feedback statement

### Assessment of Computing Project Report in module PHYS3561

**Name:** David James Fulton

**Project title:** Quantifying qubits systems using Bayesian inference

**Marker's name:** Prof Charles Adams

Statement generated at 19:00:11 on 20-June-2017

Each element is assessed on the scale: Exemplary - Excellent - Good - Sound - Acceptable - Insufficient - Unacceptable

<b>Introduction and Theory</b>	30/40
Describes the motivation for the report	Exemplary
Shows evidence of wide reading	Excellent
Shows evidence of understanding of the physical problem	Good
Briefly summarises the numerical methods used	Excellent
Comments: The background and theory are presented succinctly and clearly. I am slightly worried about equation 2. Normally you would just write $\Omega_0$ on the off diagonals and then $\pm \Omega$ are the eigenvalues, or if you prefer you get $\pm \Omega$ on the diagonal of the matrix in the dressed state basis.	
<b>Results and Discussion</b>	106/120
Shows that the computer code works correctly	Exemplary
Discusses numerical convergence of results	Excellent
Identifies the most important results clearly and convincingly	Exemplary
Discusses the physical implications of the results	Excellent
Demonstrates the student's contribution and innovation	Exemplary
Comments: The results are at a level that with a little more work would be publishable. Related work has appeared in Physical Review A as recently as September 2015. It is hard to think of how the report could be better, especially given the space constraints. I would have focused on the region up to 25 decays in Fig. 7 and compared different trajectories, but still to get so far in the time is amazing!	
<b>Conclusions and Abstract</b>	17/20
Succinctly summarises the key results and their implications	Exemplary
Conclusions present ideas for further investigation	Excellent
Comments: Abstract and conclusion are high quality. Particularly the conclusion which goes on to discuss advanced concepts such as the Cramer Rao bound, which has not been taught or covered in the tutorials.	
<b>Presentation</b>	17/20
Report is clearly written in an appropriate style	Excellent
Suitable choice of graphs/tables and correct formatting	Exemplary
Comments: Some of the best graphs I have ever seen in an undergraduate report. Figure 1(b) is innovative and better than any thing I have seen in the literature.	
<b>Any other comments:</b>	
Excellent work. Well done!	
<b>Total</b>	170/200
Mark returned (%)	85/100

Assessment data submitted at 15:12:29 on 11-April-2016

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