TIPS FOR A SUCCESSFUL MARIE CURIE APPLICATION

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STRING THEORY (ADSCFT MUNICH - STARTING JAN 2011)

SOUTHAMPTON...BEIJING...SANTIAGO DE COMPOSTELA...MUNICH

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- Get advice from the National Contact Points and the fantastic staff here they are amazing! (contact them early build rapport).

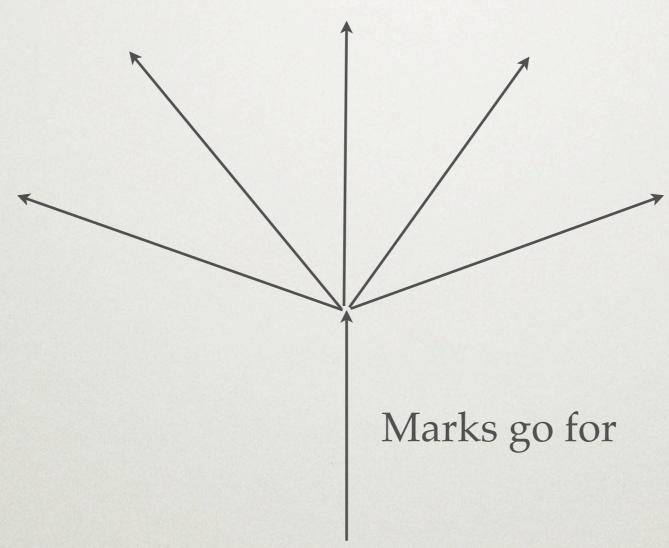
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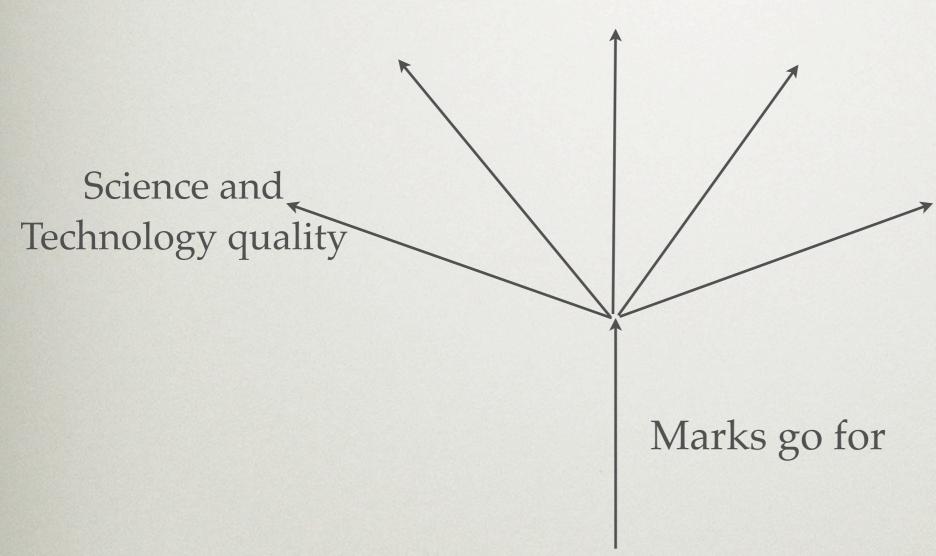
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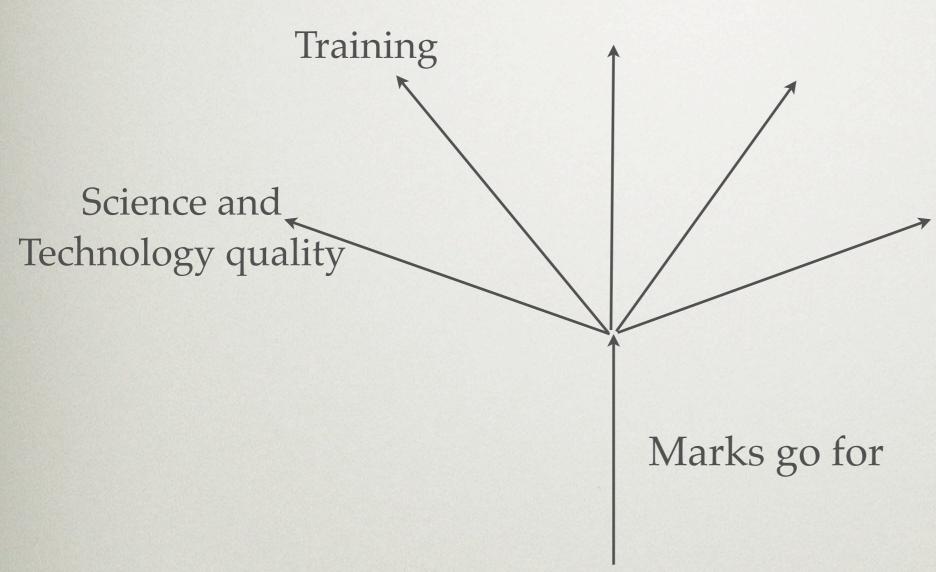
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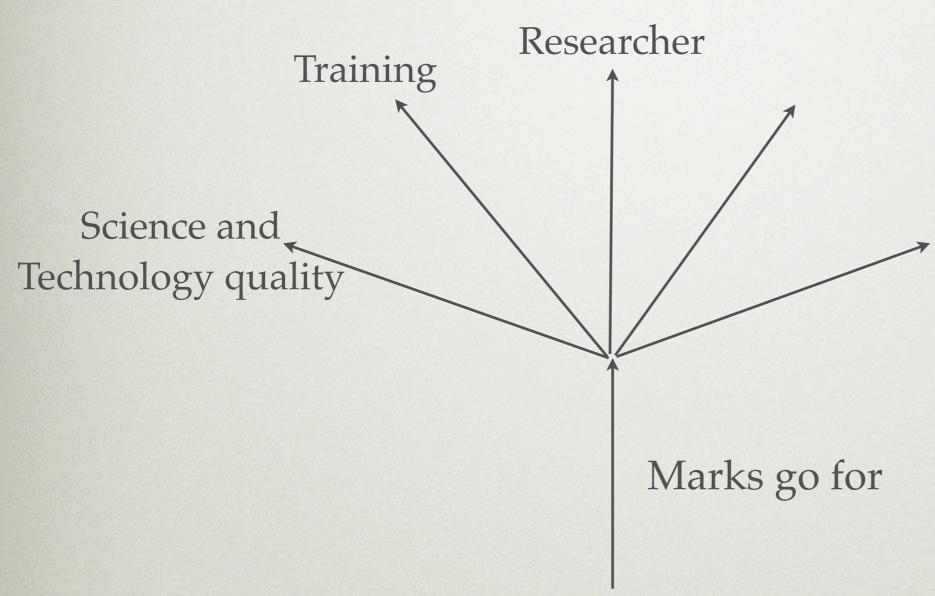
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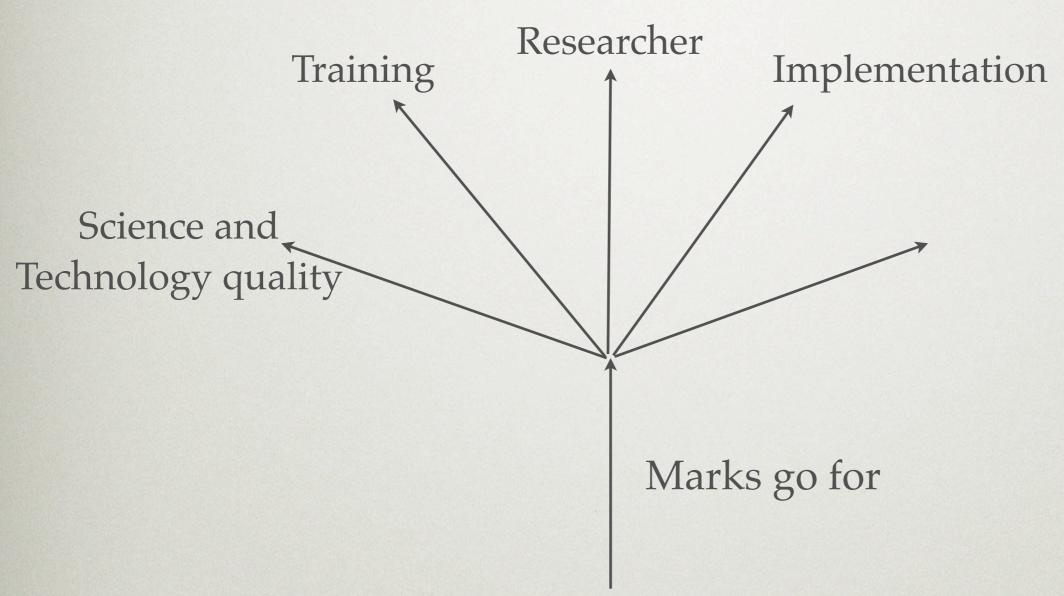
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- What do they want to hear? very important!

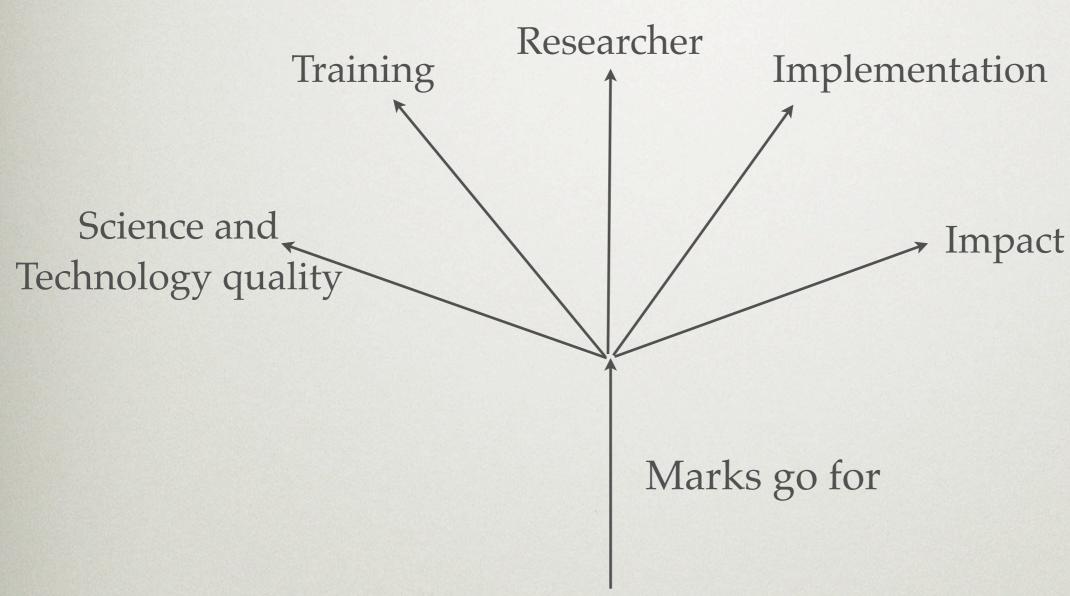












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Overview of the work	plan along with	collaborating institutions
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First 12 months	Thermalisation in AdS/CFT	MPPMU + Santiago de Compostela
	Back-reacted flayour in finite temperature AdS/CFT	MPPMU + Santiago de Compostela
months He	Baryons in AdS/CFT	MPPMU + Dublin IAS + Korea CQUEST
	Heavy-light mesons at finite temperature	MPPMU
	Condensed matter applications of AdS/ CFT	MPPMU

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- Concrete timelines including half-way goals.

Year 1

The first part will be the study of thermal QCD from the AdS/CFT perspective. This in itself can be split into two parts, each taking around six months to complete.

1-6 months

The first six months will be dedicated to the calculation of thermalisation processes dual to real-time horizon formation. Such an investigation will be computer intensive and the study of the appropriate boundary conditions to model a realistic plasma will take up the first two to three months of this time. Once an appropriate model has been constructed we will then be able to implement this code with difference scenarios, including finite baryon density and external fields. The study of the thermalisation in the full phase space of finite temperature SYM will take up the remaining period of the six months.

 Mid-term milestone: to have a working model of thermalisation, giving realistic timescales of the plasma equilibration.

7-12 months

The second six months will be a joint collaboration between the MPPMU and the University of Santiago de Compostela, the fellow's current host institute, where expertise in geometries with back-reacted flavours is second to none. Here the majority of the work on these methods has been pioneered creating a

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In summary, the training goals will be:

- An increase in the breadth of expertise of the fellow, possible with the experienced researchers in residence at the MPPMU and the mobility within Europe as collaborations are enlarged. The topics which will most advance the fellow's future prospects will be:
 - Gauged supergravities
 - 2) Back-reacting brane geometries
 - 3) Perturbative string theory and classical supergravity
 - 4) Object Oriented programming, specifically C++
 - 5) Black hole physics in the string theory context
- An increase in teaching and people management skills in supervising PhD students. This will be
 possible not only through supervising students, but also in organizing conferences and meetings
 on a global platform.
- An emphasis on scientific management for the successful creation of the fellow's own research
 group in the future, vital not only for the fellow but for the training of future researchers to
 continue such work within the European union.

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- Why you? Why your host? (who gains?)

Small-print: The referees have to talk about the weaknesses in every section

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- "Hosts expertise not sufficiently elaborated"

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- "work plan is very well structured"

Good Luck!