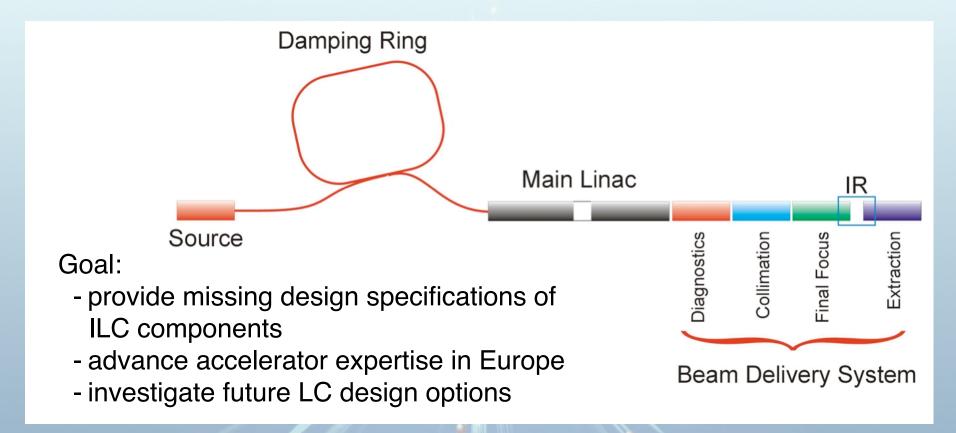
European Study Towards a Global TeV Linear Collider



ECFA Linear Collider Workshop Durham, Sep 2004

EUROTeV Design Study



- concentrate on topics that are (largely) independent of technology choice
- match the topics to the expertise available in the participating laboratories



EU Framework Programme 6

The EU's Framework
Programme for Research and
Technological Development is
a major tool to support the
creation of the
European Research Area ERA.



Opportunity for Coordinated Accelerator research

3 calls with a total of 200 M€

CARE ⇒ JRAs and network ELAN

EUROTeV ⇒ Design Study

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2nd call for design studies has been cancelled...

Where do we stand?

- EUROTeV Proposal
 - Proposal has been submitted in March
 - 27 institutes
 - 29.1 M€, with 11.3 M€ requested
 - Referees saw an outstanding proposal, complete and compelling in every regard
 - Referees recommended 9 M€ EU support
 - Official letter from the EU in July follows the recommendations of the referees
 - Invitation to submit formal proposal by Sep 30, 2004 (else the proposal will be considered withdrawn)

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 EUROTeV Kick-off meeting, Nov 1, 2004, (sponsored by ELAN network)

EUROTeV Work Packages & Institutes

Institute	WP1: MNGMNT	WP2: BDS	WP3: DR	WP4: PPS	WP5: DIAG	WP6: ILPS	WP7: METSTB	WP8: GANMVL
CCLRC	Х	С	Х	С			Х	
CEA		Х						
CERN	С	Х	Х		Х	С		
DESY	С		Х	Х	Х	Х	Х	С
ELETTRA								Х
FHG								Х
GSI								Х
INFN-LNF	Х		С					Х
INFN-Mi								X
INFN-Ro2								X
IPPP				Х				
LAL					Х	X ₀ _	13,7	PT
LAPP	Х						С	
PSI						X	94	
QMUL		Х				X		
RHUL	Х				С	Х		
TEMF,TUD		Х				11111		
UBER				X	# #	11.	/ //II \\\	11 1 1
UCAM					Х			11/1
UCL				1	Х			
ULANC		Х				7		//
ULIV		5/6		Х		74		100
UMA		Х				Х		
UMH								Х
UNIUD								Х
UOXF.DL		/ .			Х		Х	
UU					Х	Х		

BDS:

Beam delivery

DR:

Damping rings

PPS:

Polarised positron source

DIAG:

Diagnostics

ILPS:

Luminosity Performance

METSTB:

Metrology & stabilisation

GANMVL:

Accelerator network

European Added Value

EUROTeV Referees concluded:

- maximal
- Science & Technology Excellence
 - well laid out milestones
 - details of implementation depends critically on ITRP decision
 - specifically: Global Accelerator Network (GAN)
 - represented by members that are on the vanguard of development for distributed control rooms around the world
- Relevance
 - truly new infrastructure for research
- Overall
 - outstanding
 - prepares for European participation in ILC
- Recommendation (9 M€)
 - negotiate scope once ITRP decision available
 - work towards earliest possible realisation of the ILC

International Aspects

- ITRP have concluded
 - SCRF technology to be used for the International Linear Collider (ILC)
- Global Design Initiative soon to be formed
 - optimisation of worldwide research programme is just commencing

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- EUROTeV assembles considerable resources initially
- Consider fine-tuning the proposed EUROTeV programme in accordance with global research programme

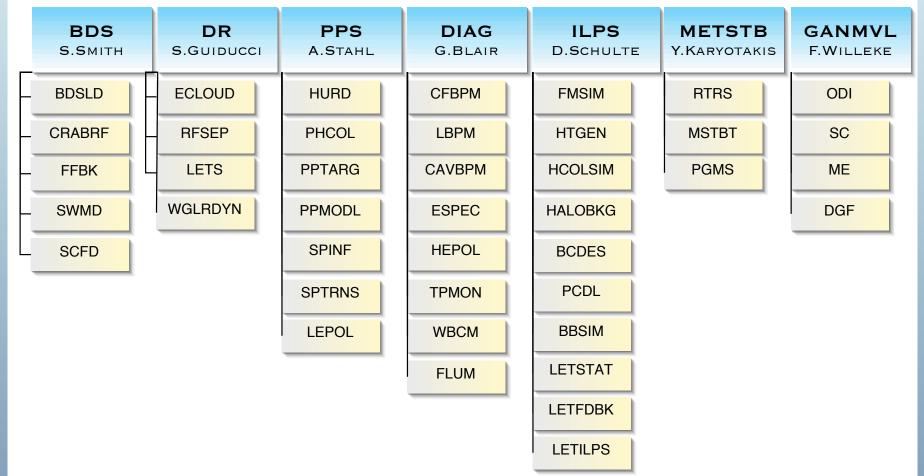
- EUROTeV proposal due Sep 30, 2004
 - funds not before 2005



EUROTeV Tasks (status as of bid)

EUROTEV WORK PACKAGES & TASKS

(EXCEPT MNGMNT)



EUROTeV Consolidation Process

Total Budget: 29073 k€

Budget

- reduce 11.3 M€ to 9 M€
- maintain scope
- increase institute involvement
- Scope
 - review programme now that technology is known
 - optimise Work Packages
 - involve other regions
 - G Dugan (Cornell)
 - M Ross (SLAC)
 - T Takasaki (KEK)
 - A Wolski (LBL) specifically for DR



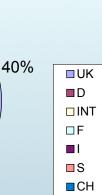
A WOISKI (LDL) Specifically to

EUROTeV open meeting Sep 13, 2004 at CERN

2%-

25%

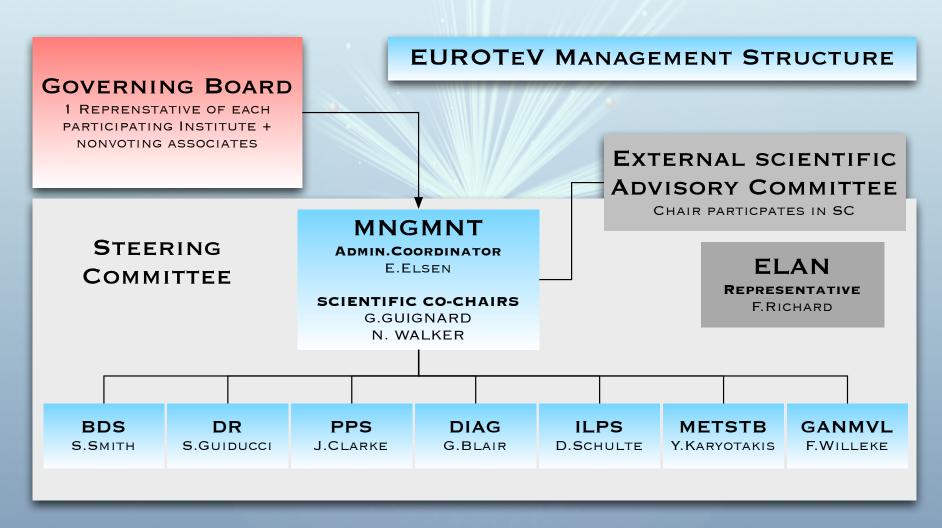
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EUROTeV Management Structure





Conclusion

HEP worldwide

- have demonstrated ability to join forces behind the next big physics tool
- are willing to optimise resources and to take difficult choices
- European laboratories...
 - have given evidence for a considerable interest in swiftly completing the remaining research towards the ILC
 - have been able to allocate considerable resources around a Design Study that will help to advance the required research
 - have exposed the ILC to the highest European political levels

To be done

- integration into worldwide effort
- continue to join the pieces of the global puzzle...
- …and build the ILC