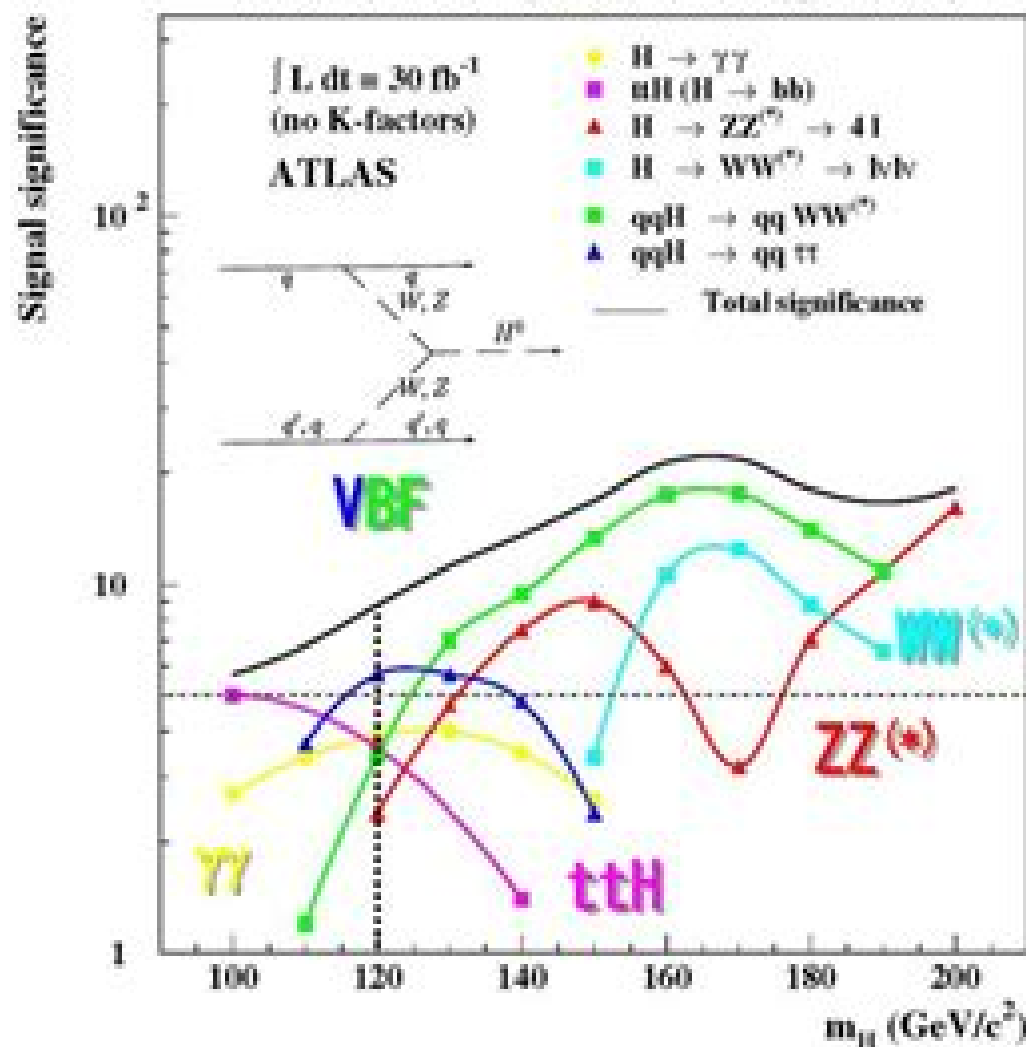


# SM Higgs discovery potential

S.Asai et al., Eur.Phys.J.direct C32 Suppl. 2 (2004) 19



$L=30\text{fb}^{-1} > 8\sigma$  significance  
 ( $M_H > 114\text{GeV}$ : LEP limit)

- Light Higgs VBF  $\cdot H \rightarrow \tau\tau$
- Heavy Higgs VBF  $\cdot H \rightarrow WW$
- Multiple discovery modes for  $M_H < 200\text{GeV}$
- $M_H > 200\text{GeV}$   
 $H \rightarrow ZZ \rightarrow 4 \text{ lepton}$   
 (gold plated)  $> 20\sigma$

$L=10\text{fb}^{-1} > 5\sigma$

→ **Discovery after  
1year LHC RUN**

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### **Table of Contents Shr Prin Physics Life Sci Suppl**

1. Understanding the eBook Shr Prin Physics Life Sci Suppl
  - The Rise of Digital Reading Shr Prin Physics Life Sci Suppl
  - Advantages of eBooks Over Traditional Books
2. Identifying Shr Prin Physics Life Sci Suppl
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Shr Prin Physics Life Sci Suppl
  - User-Friendly Interface
4. Exploring eBook Recommendations from Shr Prin Physics Life Sci Suppl
  - Personalized Recommendations

- Shr Prin Physics Life Sci Suppl User Reviews and Ratings
- Shr Prin Physics Life Sci Suppl and Bestseller Lists
- 5. Accessing Shr Prin Physics Life Sci Suppl Free and Paid eBooks
  - Shr Prin Physics Life Sci Suppl Public Domain eBooks
  - Shr Prin Physics Life Sci Suppl eBook Subscription Services
  - Shr Prin Physics Life Sci Suppl Budget-Friendly Options
- 6. Navigating Shr Prin Physics Life Sci Suppl eBook Formats
  - ePub, PDF, MOBI, and More
  - Shr Prin Physics Life Sci Suppl Compatibility with Devices
  - Shr Prin Physics Life Sci Suppl Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Shr Prin Physics Life Sci Suppl
  - Highlighting and Note-Taking Shr Prin Physics Life Sci Suppl
  - Interactive Elements Shr Prin Physics Life Sci Suppl
- 8. Staying Engaged with Shr Prin Physics Life Sci Suppl
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Shr Prin Physics Life Sci Suppl
- 9. Balancing eBooks and Physical Books Shr Prin Physics Life Sci Suppl
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Shr Prin Physics Life Sci Suppl
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Shr Prin Physics Life Sci Suppl
  - Setting Reading Goals Shr Prin Physics Life Sci Suppl
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Shr Prin Physics Life Sci Suppl
  - Fact-Checking eBook Content of Shr Prin Physics Life Sci Suppl

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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