

Higgs Physics

- start with standard model
- three distinct regions 

light: several large BRs ; narrow

$b\bar{b}$	WW	Konstantin Matchev
$\tau^+\tau^-$	ZZ	Adam Paro
$c\bar{c}$		GP Yeh (events) Stephan Lawrenz Andrea Jutte

intermediate: WW and ZZ only; $\Gamma = 1 - 10 \text{ GeV}$

Gene Fisk

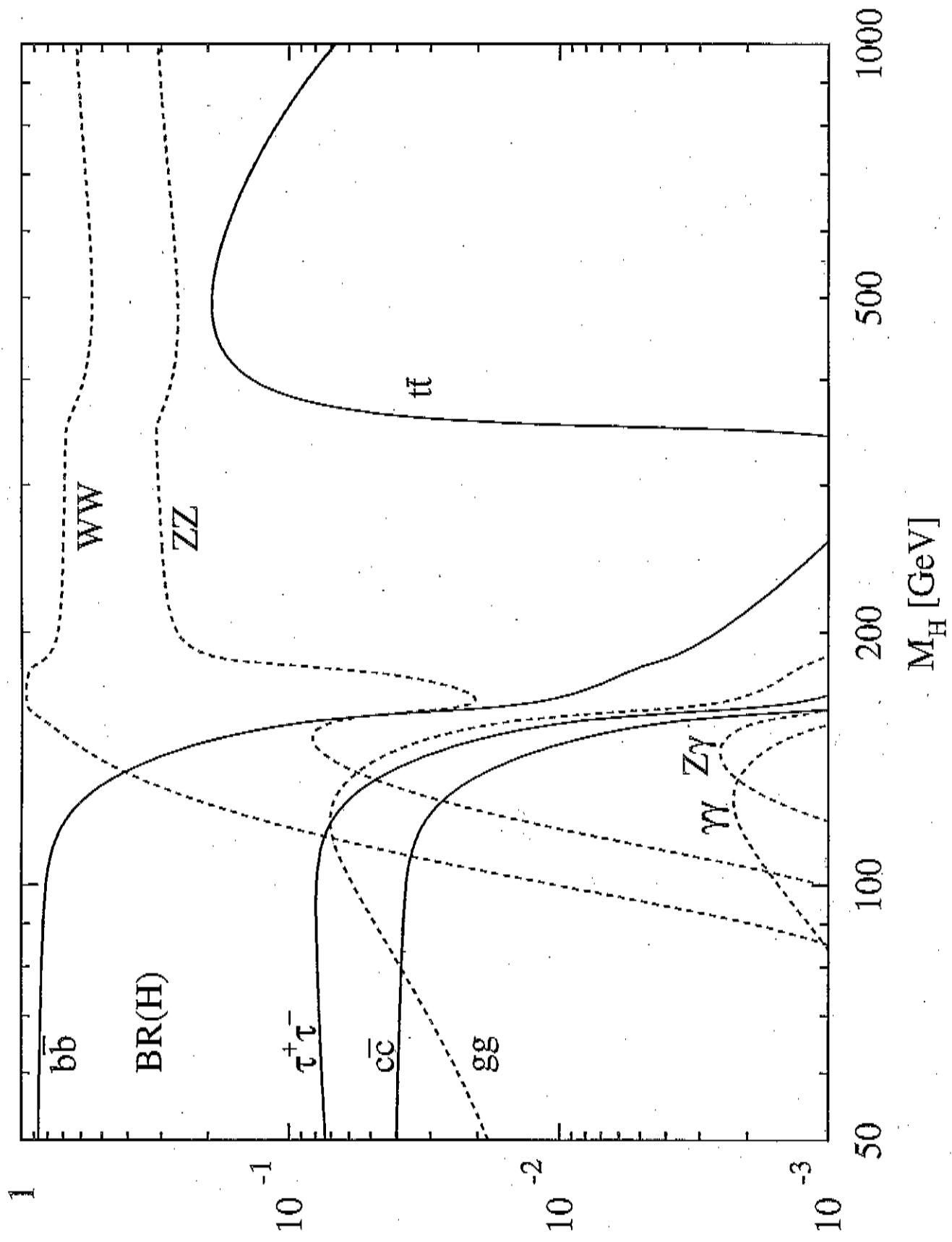
Paul Derwent

GP Yeh (events) $\ell^+ \ell^-$

heavy: WW, ZZ and $t\bar{t}$; $\Gamma = 10 - 900 \text{ GeV}$

Steve Vejcik

GP Yeh (events) $\ell^+ \ell^-$

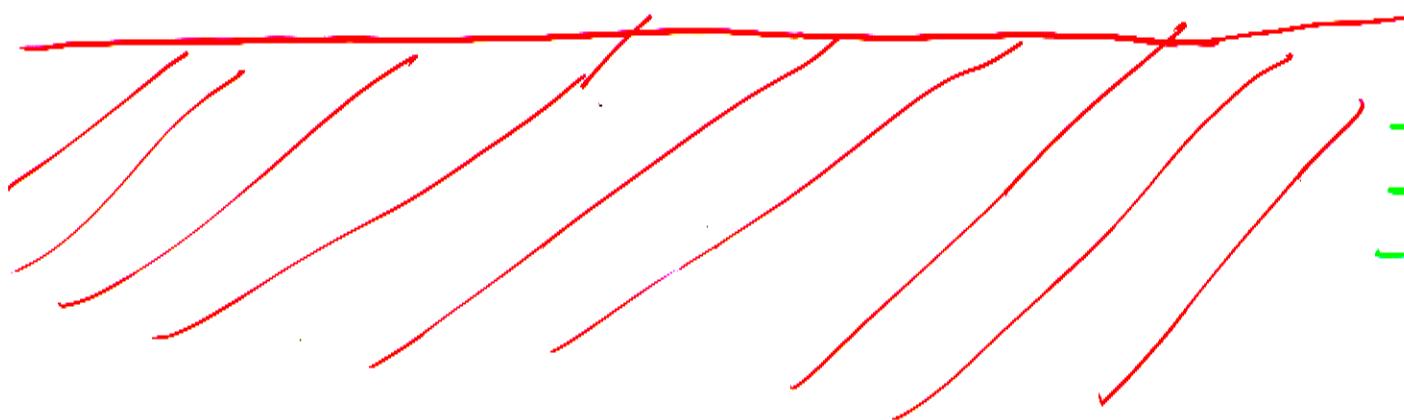


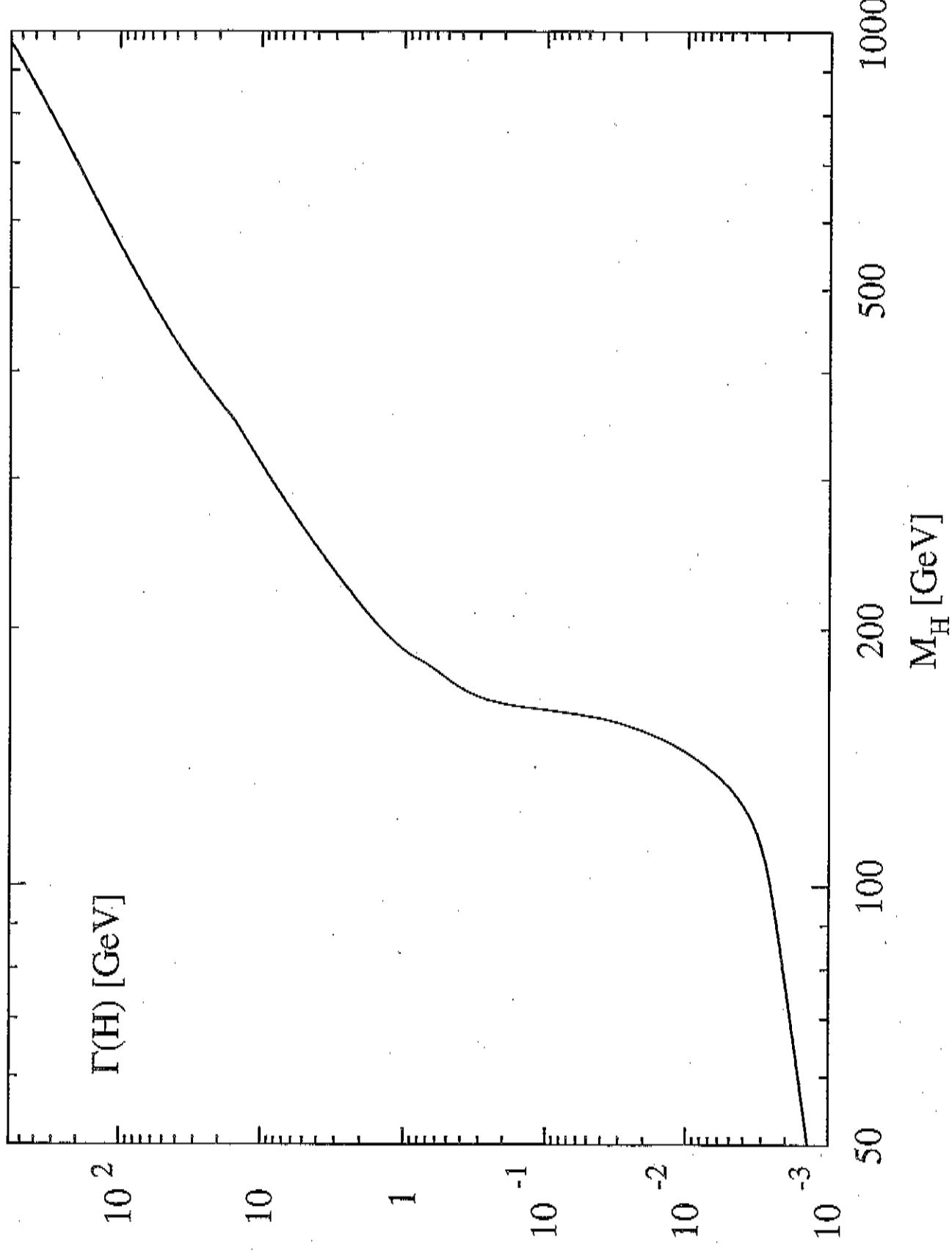
heavy

intermediate

light

excluded





What to "measure":

- mass, e.g. in recoil against $Z \rightarrow A.P.$
- spin, in angular distribution
- 2-5 largest/most interesting BRs
- Γ_{tot}

How to proceed:

- review what's been done elsewhere
- choose (in subgroup) a representative mass
- study at 500 GeV, 800 or 1000 GeV
- for light scenario consider also optimal \sqrt{s} in
$$m_Z + m_H < \sqrt{s} < 2m_t$$
also may need to look at two masses "bb"-like and WW-like
- What $S/\delta t$ is needed for secondary BRs