## Hodge Theory

#### Victor Guillemin

#### Notes, Spring 1997

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#### Definition and properties of \*.

Let V be an n-dimensional vector space over  $\mathbb{R}$  and B a bilinear form on V. B induces a bilinear form on  $\wedge^p V$ , also denoted by B determined by its value on decomposable elements as

$$B(\mu, \nu) := \det(B(u_i, v_j)), \quad \mu = u_1 \wedge \cdots u_p, \quad \nu = v_1 \wedge \cdots v_p.$$

Suppose we also have fixed an element  $\Omega \in \wedge^n V$  which identifies  $\wedge^n V$  with **R**. Exterior multiplication then identifies  $\wedge^{n-p}V$  with  $(\wedge^p V)^*$  and B maps  $\wedge^p V \to (\wedge^p V)^*$ . We thus get a composite map

$$\star:\wedge^p V \to \wedge^{n-p} V$$

# **Notes On Guage Theory And Hodge Theory**

Kenji Ueno,Yūji Shimizu

**Notes On Guage Theory And Hodge Theory:** 

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