

# NEW HORIZONS IN MATHEMATICAL PHYSICS

$$\chi(\Omega_T) = \chi(M)$$

A point  $y \in \Omega_T$  then we have

$$y = x + \sum t_v v,$$

$$\sum t_v v = 0$$

$$(\sum t_v v, w_y) = 0$$

$$d(\sum t_v v) = \sum (dt_v + \sum t_s \omega_{sv})$$

$$(\sum t_v v)(\sum t_v v)^* = \binom{n-1}{k} (\sum t_v v)(\sum dt_v v)^{n-k-1} (\sum t_v h_{vap} \omega_{pv})$$

$$= \pm \frac{(n-1)!}{(n-1-k)!} (\sum t_v v)(\sum dt_v v)^{n-k-1} \det(\sum t_v h_{vap})$$

$$= \pm (n-1)! \delta_t \det(\sum t_v h_{vap})$$

$$= \pm (n-1)! \Omega_{n-k}$$

$$\chi(\Omega_T) = \int_M \sum \epsilon_{d_1 \dots d_n} \Omega_{d_1} \dots \Omega_{d_n} \Omega_T^{n-k}$$

$$\chi(N') = (-1)^{\frac{k(k+1)}{2}} \frac{1}{2^k \pi^k (k!)} \int_M \sum \epsilon_{d_1 \dots d_n} \Omega_{d_1} \dots \Omega_{d_n} \Omega_T^{n-k}$$

$$\frac{1}{2^k \pi^k (k!)} \sum \epsilon_{d_1 \dots d_n} \Omega_{d_1} \dots \Omega_{d_n} \Omega_T^{n-k}$$

$$H_k / n(n+1) \dots (n+k-2)$$



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