s.t $\bigcup_{i=1}^{n} U_{p_i} \supset K \cap V$, $\overline{U_{p_i}}$ compact. (We may add this condition.)

$\Rightarrow$ $\exists$ a partition of unity ϕ_i s.t

$\operatorname{supp} \phi_i \subset U_{p_i}$

and $\sum \phi_i = 1$.

$\Rightarrow$ $\int_V d\varphi$

$$= \int_V d \sum \phi_i \varphi = \sum_i \int_V d \phi_i \varphi = 0$$

by the claim,

since $\phi_i \varphi \in A_c^{2k-1}(U)$. ///

For any $p \in V$, we can find a coordinate system $z = (z_1, z_2, \cdots z_n)$ and a polycylinder Δ around p s.t the projection map $\pi : (z_1, z_2, \cdots z_n) \longmapsto (z_1, \cdots z_k)$ expresses $V \cap \Delta$ as a branched cover of $\Delta' = \pi(\Delta)$, branched over an analytic hypersurface $D \subset \Delta'$.

「 By P14, the assertion α. ///

Let T_ϵ be the ε-nbd of D in Δ' and

$$V_\epsilon = (V \cap \Delta) - \pi^{-1}(T_\epsilon).$$