"Comment on Bott Residue Formula"

If Bott Residue Formula is correct, by the argument in the proof, we can get the right description of C_n, since we have $\beta(v, \bar{v})$. For reference, see Complex Manifolds without Potential Theory by Chern, p 135 ~ p138.

I can not believe the proof. Specially,

$$\int_{\partial B_\epsilon(p_\nu)} \varphi(v) \qquad \beta(v, \bar{v}) = \varphi(0) \quad ?$$

I don't buy this, for

$$\int_{\partial B_\epsilon(p_\nu)} \varphi(z) \ \beta(z, \bar{z}) = \varphi(0) \quad \text{and}$$

$z \longmapsto v$ contradict each other.

Review on p 433

$$\int_M P\left(\frac{\sqrt{-1}}{2\pi} \Theta\right) \qquad = -\sum_\nu \int_{\partial B_\epsilon(p_\nu)} \Phi$$

$$= \sum_\nu \int_{\partial B_\epsilon(p_\nu)} \frac{P(A_{p_\nu})}{\det A_{p_\nu}} \ \beta(v, \bar{v}) \cdot C_n$$

$$= C_n \sum_\nu \frac{P(A_{p_\nu})}{\det A_{p_\nu}},$$ C_n is a universal constant