

**VOLATERRA INTEGRAL OPERATORS**

**FROM** $\mathcal{D}_{p-2+s}^p$ **INTO** $F(p\lambda, p\lambda + s\lambda - 2, q)$

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**Abstract.** Let $1 < p < \infty$, $0 < q < \infty$, $0 < s$, $\lambda \leq 1$ such that $q + s\lambda > 1$. We characterize the boundedness and compactness of inclusion mapping from Dirichlet type spaces $\mathcal{D}_{p-2+s}^p$ into tent spaces $T_{p\lambda,q}(\mu)$. As an application, the boundedness of the Volterra operator $T_g$, its companion operator $I_g$ and the multiplication operator $M_g$ from $\mathcal{D}_{p-2+s}^p$ to $F(p\lambda, p\lambda + s\lambda - 2, q)$ are given. Furthermore, we study the essential norm and compactness of $T_g$ and $I_g$.

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**REFERENCES**


