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**Alejandro Velez-Santiago\*** ([alejandro.velez2@upr.edu](mailto:alejandro.velez2@upr.edu)), Call Box 9000, Mayaguez, PR 00681. *Approximation of quasi-linear Koch-type fractal energy functionals on varying Hilbert spaces.*

We study a quasi-linear evolution equation with nonlinear dynamical boundary conditions in a two dimensional domain with Koch-type fractal boundary. We consider suitable approximating pre-fractal problems in the corresponding pre-fractal varying domains. After proving existence and uniqueness results via standard semigroup approach, we prove that the pre-fractal solutions converge in a suitable sense to the limit fractal solution in varying Hilbert spaces. (Received September 10, 2019)