1039-12-11 **Cyrus F Nourani*** (cyrusfn@alum.mit.edu), PO Box, 278, Cardiff, CA 92007, and **R M Moudi**. *Fields, Certificates, and Models.* Preliminary report.

On the preceding ASL's the author had defined prodcut models on a positive Keisler frgament on L <P,w> and proved. Infinitary Fragment Consistency on Algebras. A newer look at models and extensions since the author's 1978 on is to to call a primitive set of operations of algebras of a class C is a set that implicitly defines the remaining operations. Given any class C of algebras of a given signature S, a subset T of S is called a canical set for C when it determines the remaining operations of S, in the sense that any algebra with signature T has at most one expansion (same elements but additional operations) to an algebra in C. Certifcates are important to cryptographical mathematics. Product models are a basis to modeling sepcific fields. Proposition Every prime model has a succinct certificate. Proof follows from the follwing Lemma 1The generic diagram defines a succinct certificate for (Initial) prime models in the sense that the model is definable by a primitive set. Theorem 2 Generic diagram define succinct certificates for prime models. References

Nourani, C.F 2005,Fragment Consistency on Functorial Models (A Preliminary) AMS , San Francisco, April 06

Reference: 1018-18-90 (Received January 23, 2008)